
SOUTHERN COLLEGE

OF SEVENTH-DAY ADVENTISTS



1992-93 Catalog

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1992-1993 CATALOG

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In publishing this catalog, every reasonable effort has been made to be factually accurate. The publisher assumes no responsibility for editorial, clerical, or printing errors. The information presented is, at the time of printing, an accurate description of course offerings, policies, and requirements of Southern College. The provisions of this catalog, however, are not to be regarded as an irrevocable contract between the college and the student. The college reserves the right to change any provision or requirement at any time, without prior notice.

TABLE OF CONTENTS

Academic Calendar	3
This Is Southern College	6
Admissions	10
Financial Policies	15
Student Costs	15
Housing	17
Methods of Payment	20
Financial Aid	30
Student Life and Services	42
Academic Policies	47
Degree Requirements	48
General Education Requirements	51
Departments of Instruction	77-267
Allied Health	77
Art	85
Behavioral Science	88
Biology	95
Business & Office Administration	105
Chemistry	122
Computer Science and Technology	127
Education and Psychology	137
Engineering Studies	161
English and Speech	164
Health, Physical Education, and Recreation	171
History	180
Industrial Technology	187
Journalism and Communication	192
Mathematics	204
Modern Languages	210
Music	214
Nondepartmental	227
Nursing	229
Physics	242
Religion	250
Interdepartmental Programs	266,267
General Studies	266
Medical Science	266
Non-degree Pre-professional Programs	268-273
Anesthesia	268
Dentistry	268
Law	269
Medicine	270
Optometry	271
Osteopathic Medicine	272
Pharmacy	272
Veterinary Medicine	273
The Registry	274
Index	289

ACADEMIC CALENDAR

1992-93 School Year

The Southern College summer term consists of four 4-week sessions. Students in attendance during the 1991-92 school year may register at any time during the week immediately preceding the session.

1st Summer Session

May 5	Registration
May 5	Classes Begin
May 6	Late Registration Fee
May 7	Last Day to Add a Course/Fee for Class Change
May 15	Last Day to Drop and Automatically Receive a "W"
May 22	All Withdrawals After This Date Receive "F"
May 29	Classes End

2nd Summer Session

June 2	Registration
June 2	Classes Begin
June 3	Late Registration Fee
June 4	Last Day to Add a Course/Fee for Class Change
June 12	Last Day to Drop and Automatically Receive a "W"
June 19	All Withdrawals After This Date Receive "F"
June 26	Classes End

3rd Summer Session

June 29	Registration
June 29	Classes Begin
June 30	Late Registration Fee
July 1	Last Day to Add a Course/Fee for Class Change
July 3	Independence Day Observed
July 10	Last Day to Drop and Automatically Receive a "W"
July 17	All Withdrawals After This Date Receive "F"
July 24	Classes End

4th Summer Session

July 26	Registration
July 27	Classes Begin
July 29	Late Registration Fee
July 29	Last Day to Add a Course/Fee for Class Change
August 7	Last Day to Drop and Automatically Receive a "W"
August 14	All Withdrawals After This Date Receive "F"
August 20	Classes End

ACADEMIC CALENDAR

1st Semester

Aug 14-16	Faculty Colloquium
Aug 21, 23	ACT and CLEP Exams
Aug 24	Freshman Orientation
Aug 24, 25	Registration by Appointment
Aug 26	Classes Begin
Aug 26	Late Registration Fee
Sep 2	Fee for Class Change
Sep 8	Last Day to Add Course
Oct 15	Mid-term Ends
Oct 16-18	Mid-semester Vacation
Oct 30-Nov 1	Alumni Homecoming
Oct 29	Last Day to Drop and Automatically Receive a "W"
Nov 2-13	Pre-Registration/Advisement
Nov 25-29	Thanksgiving Vacation
Dec 4	All Withdrawals After This Date Receive "F"
Dec 14-17	Semester Exams
Dec 15-Jan 3	Christmas Vacation

2nd Semester

January 3, 4	Registration for Pre-registered Students
January 4	Registration by Appointment
January 5	Classes Begin
January 5	Late Registration Fee
January 12	Fee for Class Change
January 18	Last Day to Add Course
January 26	Senior Class Organization
February 25	Mid-term Ends
Feb 26-Mar 7	Spring Break
March 12	Last Day to Drop and Automatically Receive a "W"
Mar 22-Apr 2	Pre-Registration/Advisement
April 5	Senior Deadline for Correspondence/Incompletes
April 9	All Withdrawals After This Date Receive "F"
April 4, 5	College Days
April 26-29	Semester Exams
May 2	Commencement/Semester Ends

JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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THIS IS SOUTHERN COLLEGE

Southern College of Seventh-day Adventists is a four-year co-educational institution established by the Seventh-day Adventist Church* primarily to serve its constituents in the southeastern part of the United States. Its purpose is to provide biblical, liberal arts, professional, pre-professional, vocational, adult studies, and special programs in a Christian setting.

EDUCATIONAL PHILOSOPHY AND OBJECTIVES

The purpose of higher education in the Seventh-day Adventist Church is rooted in a comprehensive theological understanding of humanity in the world. The following is a summary of this understanding:

- (1) Seventh-day Adventists believe that God is the Creator and Sustainer of the earth and its inhabitants. He is the Source of all knowledge.
- (2) Created in the image of God for the purpose of communion with Him, man possessed harmonious physical, mental, spiritual, and social attributes.
- (3) As a result of sin, these attributes were seriously marred, but God in His love provided a redemptive plan for the restoration of His image in humanity, thus preparing man for eternal personal fellowship with God.

In the context of this theological understanding, education is viewed as an essential element of redemption, including an awareness of man's relationship to God and a commitment of service to mankind. Education, consequently, must focus on developing the whole person. Southern College attempts to provide a spiritual, intellectual, social, and physical environment designed to encourage this development through the following specific objectives.

Spiritual

The spiritual goal of Southern College is to enable students to grasp Christian beliefs and values as understood by the Seventh-day Adventist Church. Along with three hours' mandatory religion course

*This college is operated by the Southern Union Conference of Seventh-day Adventists, which is comprised of the churches in the states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

work for each year of attendance, students have religious convocations and various opportunities for Christian fellowship and service to help them better internalize these ideals.

Intellectual

The intellectual goal of Southern College is to help students confront the ideas and values which underlie civilization. Course requirements and general education options aim at broadening and deepening the students' outlook. An honors program challenges the most capable students, while academic awards recognize a range of scholarly achievements.

Occupational

The occupational goal of Southern College is to prepare students for service in a practical world. Although that does not always mean specific career orientation, the major and minor course work offers useful competencies as well as skills related to specific vocations.

Social

Regarding the relationship of individuals to society, the goal of Southern College is to encourage students to attain the social maturity necessary for successful family and community living. Southern College provides activities and courses aimed at developing healthy interpersonal relations, communication skills, and decision-making abilities.

Physical

Regarding personal health, the goal of Southern College is to educate students to be active in promoting their own physical well-being. Southern College is smoke-, alcohol-, and drug-free by policy, and the cafeteria offers a meatless diet. Health-oriented courses and activities combine to encourage a balance of exercise, rest, diet, study, work, and recreation.

HISTORY

In 1892 the educational venture that developed into Southern College had its beginning in the Seventh-day Adventist Church in the small village of Graysville, Tennessee. The school became known as Graysville Academy. In 1896 the name was changed to Southern Industrial School and five years later to Southern Training School.

In 1916, because of limited acreage available for further expansion of plant facilities, the school was moved to the Thatcher farm in Hamilton County, Tennessee. The name "Collegedale" was given to the anticipated community. At its new location, the school opened as Southern Junior College and continued as such until 1944 when it achieved senior college status and the name was changed to Southern

Missionary College. In 1982 the name was changed to Southern College of Seventh-day Adventists.

SETTING

Southern College's one-thousand-acre Collegedale campus is nestled in a valley eighteen miles northeast of Chattanooga. The quietness and beauty of the surroundings are in keeping with the college's educational philosophy.

ACCREDITATION AND MEMBERSHIPS

Southern College is accredited by the Southern Association of Colleges and Schools and by the Seventh-day Adventist Board of Regents.

Departments of the college are also accredited by various organizations. The Associate of Science and Bachelor of Science degree programs in nursing, including Public Health Nursing, are accredited by the National League for Nursing as surveyed by the Collegiate Board of Review. The Department of Nursing is an agency member of the Department of Baccalaureate and Higher Degree Programs of the Division of Nursing Education of the National League for Nursing. It is also accredited by the Tennessee Board of Nursing and is recognized by the Florida State Board of Nursing.

The college is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers. Southern College is also a member of the Association of American Colleges, the American Council on Education, the Tennessee College Association, the American Association of Colleges for Teacher Education, and the National Association for Schools of Music.

ACADEMIC PROGRAM

The academic program consists of 36 baccalaureate degree majors and 27 minors. Students may pursue programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees. Fourteen programs leading to an associate degree are also offered. Various pre-professional and terminal curricula are available to students wishing to qualify for admission to a professional school.

Secondary teaching certification is available in ten disciplines. A one-year certificate is available in Auto Body Repair. SC also cooperates with Loma Linda University in offering the M.Ed. degree and with Andrews University in offering the M.S.N. degree.

STUDENTS

Sixty-five percent of the students of Southern College come from the eight states comprising the Southern Union Conference of Seventh-day Adventists. However, most of the additional states and 25-30 foreign countries are also represented. There are a few more women than men.

Former Southern College students are now serving in the ministerial, teaching, medical, and other services of the Seventh-day Adventist Church at home and abroad. Others are engaged in advanced study, business pursuits, government service, research activities, private and institutional medical services, and the teaching professions on all levels.

FACILITIES

The following buildings house the academic activities of the college on the Collegedale campus:

Brock Hall--Art, Business and Office Administration, English and Speech, History, Journalism and Communication, Modern Languages, Instructional Media, and WSMC FM90.5
Daniells Hall--Mathematics, Physics, Computer Science and Technology
Hackman Hall--Biology and Chemistry
Mazie Herin Hall--Nursing
William Iles Physical Education Center--Physical Education
Ledford Hall--Industrial Technology
McKee Library
Miller Hall--Religion Center
Student Center--Computer Center, Student Health Service, Cafeteria, Testing and Counseling Center, Campus Ministry Office, student activity rooms, K.R.'s Place
Summerour Hall--Behavioral Science, Education and Psychology
J. Mabel Wood Hall--Music
Lynn Wood Hall--Alumni, Conference Rooms
Wright Hall--Administration

Other facilities on or near campus that serve student needs:

Collegedale Academy--secondary laboratory school
Collegedale Seventh-day Adventist Church
Charles Fleming Plaza--shopping center with businesses serving the college and community
Recreational Area--tennis courts, a track, playing fields
Arthur W. Spalding Elementary School--laboratory school
Student Apartments
Student Park
Talge Hall--men's residence hall
Thatcher Hall--women's residence hall
WSMC FM90.5--radio station

Various auxiliary and vocational buildings house college industries and service departments.

ADMISSIONS

Southern College welcomes applications from students, regardless of race, sex, religion, or national origin, whose principles and interests are in harmony with the ideals and traditions of the college as expressed in its objectives and policies. Although religious affiliation is not a requirement for admission, all students are expected to abide by the policies and standards of the college as a Seventh-day Adventist institution.

PREPARATION FOR FRESHMAN STANDING¹

Applicants for regular admission as freshmen must submit three satisfactory recommendations to the Admissions Office and satisfy one of the following three conditions at the time of enrollment:

Regular Acceptance

- A. Graduate from an approved secondary school, including Home Study International, with a grade point average (GPA) of at least 2.00 (on a 4.00 scale) in major subjects² and have a minimum composite score of 18 on the Enhanced American College Test (ACT).
- B. Pass the General Education Development (GED) test, have a composite score of 18 on the Enhanced ACT, and be eighteen years old by June 1 (prior to admission). Each applicant must have an official transcript of his or her grades and credits sent to the Admissions Office from the high school most recently attended.
- C. Complete a minimum of eighteen secondary school units, fourteen of which must be in major subjects², with a minimum GPA of 3.00 in the major subjects, and have a minimum composite score of 18 on the Enhanced ACT.

Southern College must have received a final official high school transcript or GED scores and a transcript from the high school last attended from each new student before he or she will be admitted to registration.

¹Those planning to enter professions such as nursing or music education should consult departmental admission requirements.

²Bible, English, mathematics, natural science, social science, and foreign language.

Acceptance on Academic Probation

- A. If either the high school GPA or ACT composite score is below the minimum requirements as stated above, the student may be accepted on academic probationary status.
- B. Students accepted on academic probation may take no more than 12 semester hours during the first semester.

If both the high school GPA and the Enhanced ACT composite score are below the minimum requirements (2.00 and 18 respectively), it will be necessary for the student to take a minimum of six semester hours (in solid courses) and maintain a college GPA of 2.25 before being accepted at Southern College. These six hours may be taken at Southern College during the summer (last session excluded) or at another accredited college.

Subjects Required for Admission

Applicants to freshman standing are expected to have the following minimum subjects in their secondary program:

1. Three units of English, excluding journalism and speech.
2. Two units of mathematics, including algebra.
3. Two units of science or an ACT score of 14 in science reasoning. A college class in biology, chemistry, or physics must be taken in addition to general education requirements if this condition is not met.
4. Two units of social studies. If one of these two units is not World History, HIST 174, 175, 364, 365, 374, 375, 386 or 389 must be taken as part of the general education science requirements.
5. Two units in a foreign language for a B.A. degree are required. If deficient, one year of a foreign language at the college level will be required.
6. One unit in typing is strongly recommended.

ADMISSION TO THE NURSING DIVISION

Students who wish to be admitted to nursing courses as freshmen or as transfer students should refer to the Nursing section of the CATALOG for admission requirements.

ADMISSION OF TRANSFER STUDENTS

Students wishing to transfer to Southern College from another accredited college or university must follow the same application procedure as other students. Transfer credits may be applied toward the requirements for a degree when the student has satisfactorily completed a minimum of twelve semester hours in residence. Credit by

examination taken at other colleges will be accepted according to Southern College standards (see "College Credit by Examination" in the Academic Policies section of the CATALOG). A maximum of 72 semester hours may be accepted from a college where the highest degree offered is the associate degree. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention.

Credit will be granted for courses taken at institutions which are not regionally accredited only after the student has completed at least 16 semester hours at Southern College with a 2.00 or better average. Only those courses that are comparable to Southern College courses and for which the student has earned a "C" grade or better will be accepted.

A student who has been dismissed from another institution because of poor scholarship or citizenship, or who is on probation from that institution, is not generally eligible for admission until he can qualify for readmission to the institution from which he has been dismissed. Transfer students must submit both their college and high school official transcripts to the Admissions Office before being admitted to registration. Those who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the Enhanced ACT (American College Test) prior to registration at Southern College.

ADMISSION OF SPECIAL STUDENTS

Mature individuals who do not meet the above college admission requirements and who do not wish to become degree candidates, or otherwise qualified students who may desire limited credit for transfer to another institution of higher learning, may register as special students. A special student may enroll for a maximum of five semester hours per term.

ADMISSION OF INTERNATIONAL STUDENTS

An international student making application to Southern College must have completed the equivalent of a United States high school (secondary) education. The student is required to list only the institutions and dates attended on the application forms, but will not be accepted to Southern College until the college has received original records or official copies of all credits, degrees, diplomas and other credentials, with validation by school or national officials. These should be in the original language, accompanied by a translation (not an interpretation) in English, and certified by an American Embassy official if possible.

The Vice President for Admissions of Southern College will evaluate academic documents received for international students based on the recommendations found in the World Education series of booklets published by the American Association of Collegiate Registrars and Admissions Officers and Patterns of Seventh-day Adventist Education, published by the General Conference of Seventh-day Adventists.

Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "O" level academic subject passes (generally at one sitting, with marks 1 through 6 or A through D). Subjects must include English, a natural science, and three others selected from a second language, mathematics, science, and social studies.

Proficiency in English, both written and oral, must be proven before admission. This may be done by taking the English Language Proficiency Test (ELI) or Test of English as a Foreign Language (TOEFL). Students whose ELI score is below 90 or TOEFL score is below 500 will not be admitted. Students must reach the above stated score to be admitted to the college for the regular academic year.

In addition to the regular college expenses, there are other expenses for an international student. (Please refer to the Financial Information section of the CATALOG.)

International students should realize that according to U.S. Immigration laws, overseas students are not permitted to work more than 20 hours per week and may not be employed except on the college campus.

It is important that international students not leave their homeland until they receive an official letter of admission from Southern College. Such a letter will be issued only if the student's academic credentials are satisfactory, a surety advance deposit has been made, and the student is able to demonstrate the ability to finance his/her education at Southern College. Then the (Immigration) I-20 form will be issued.

When students depart from their homeland, they should have in their possession:

1. An admissions letter of acceptance from Southern College
2. I-20 form
3. A valid passport
4. A valid visa to enter the United States
5. Sufficient funds for the first year at Southern College (in addition to the international surety deposit required of all non-U.S. citizens).

APPLICATION PROCEDURE FOR ADMISSION

- ◆ Prospective students should request application forms from the Office of Admissions.
- ◆ Completed applications, budget sheets, and medical forms should be returned to the Office of Admissions with an application fee of \$20.
- ◆ It is the student's responsibility to request any former schools (high school and college) to forward transcripts to the Office of Admissions in support of the application. These will become the property of the college. **NO TRANSCRIPT WILL BE ACCEPTED DIRECTLY FROM AN APPLICANT.**
- ◆ Students transferring from another college or university who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the ACT prior to registration at Southern College.
- ◆ Upon receipt and evaluation of the application, transcripts of credits, recommendations, and test scores, the Admissions Committee will notify the applicant of the action taken.

WHEN TO APPLY OR REAPPLY

New students are urged to submit applications no later than the last term of the senior year of high school. Applications submitted at the beginning of the senior year will sometimes enable the college to suggest ways of strengthening the student's preparation. Because of the difficulty sometimes encountered during the summer months in obtaining necessary transcripts, test scores, and recommendations, more time will be necessary for processing late applications.

Students in residence may submit reapplications without charge until April 30; thereafter the regular application fee of \$20 will be required.

FINANCIAL POLICIES

EXPENSES

FINANCIAL BUDGET AND CAMPUS EMPLOYMENT

Southern College tries to give every student the opportunity to obtain a Christian education. Every effort will be made to assist students in meeting their financial obligation in order to reach this goal.

The Student Finance Office will assist students in their financial planning. Financial aid is available to qualified recipients in the form of grants, loans, scholarships and employment (see page 30). Before registration each student must submit a payment contract to the Student Finance Office signed by the student and financial sponsor indicating how college expenses will be paid.

Information on student costs and means of paying those costs is given below to assist the student in financial planning.

STUDENT COSTS

Tuition 1992-93:

Students taking 1-11 semester hours will be charged at a rate of \$318 per semester hour. Students taking 12-16 semester hours will be charged \$3,750. Additional hours will be charged at the rate of \$238 per semester hour.

ESTIMATED STUDENT BUDGET

	<i>Residence Hall Student</i>		<i>Non-residence Hall Student</i>	
	<i>Semester</i>	<i>Year</i>	<i>Semester</i>	<i>Year</i>
Tuition (12-16 hrs/semester)	\$3,750	\$7,500	\$3,750	\$7,500
Books and school supplies	230	460	230	460
Residence Hall	700	1,400		
Food (\$225 monthly average)	900	1,800		
Total estimated costs*	\$5,580	\$11,160	\$3,980	\$7,960

(Health insurance, automobile parking, and Campus Shop personal purchases are in addition if applicable.)

*With financial aid and/or labor, this total figure can be substantially reduced.

FAMILY REBATE

When two students from the same immediate family are both enrolled as full-time students (taking 12 hours or more) at SC and have the same financial sponsor, a tuition rebate of 5% will be applied to

EXPENSES

each statement. A 10% rebate will be applied when three or more students have the same financial sponsor and are enrolled as full-time students. Application forms for this rebate are available at the Cashier's Office.

SOUTHERN SCHOLARS' FINANCIAL BENEFITS

After completing one year in the honors program, Southern Scholars may receive a scholarship for the cost of auditing one class for each semester that they remain in the program. Beginning with the junior year a Southern Scholar will receive a scholarship covering a three-hour class each semester. Also, a scholarship will be granted to cover Honors Seminar HMNT 451, 452. The "per hour" rate for a 16-semester hour class load will be the basis for calculating these scholarships (see page 15).

MUSIC LESSON FEES

Private music lessons may be taken on a credit or noncredit basis. A student will receive 14 half-hour lessons per semester for one hour of credit. The cost of such lessons is the regular tuition plus a \$116 music lesson fee per semester for both credit and non-credit lessons.

Teachers are not expected to make up lessons missed because of unexcused absences.

Community School of Music students (non-college students) register for private and group lessons at the Music Department Office. Each student is required to pay a yearly registration fee of \$15. Lessons are to be paid for in advance either by the semester or by the month.

SPECIAL FEES AND CHARGES

The following special fees and charges* are assessed separately inasmuch as they may not apply to all students nor do they occur regularly:

Application for admission (not refundable)	\$20.00
Audit tuition	1/2 reg. tuition
Automobile parking fee (per semester):	
Dormitory	\$36.00
Village	\$26.00
Motorcycle parking fee	\$26.00
Cancellation of registration	\$50.00
Change of program	\$12.00
Credit by examination (per hour) recording fee	\$35.00
Examinations:	
Challenge or waiver	\$48.00
CLEP	\$40.00
Rescheduling mid-term or final	\$63.00
Incomplete grade recorded	\$7.50

Insufficient funds check fee and penalty	\$18.00
**Insurance:	
Student	\$235.00
Spouse	\$725.00
Children	\$575.00
Late Registration	\$35.00
Late return of organizational uniform	\$20.00
(The full cost will be charged if irreparably damaged or not returned.)	
Lost residence hall key or replacement:	
Talge Hall	\$10.00
Thatcher Hall	\$20.00
Lost student I.D. or replacement (must pay cash)	\$5.00
Medical Technology recording fee (senior year)	\$55.00
***Nursing education fees:	
Associate degree (per semester)	\$250.00
Baccalaureate degree (after completing Assoc. Degree)	
(per nursing semester hour)	\$13.00
Transcript fee	\$3.00
One-day service	\$6.00

*See individual class descriptions for class fees and charges.

**Subject to change by insurance company.

***Declared nursing majors enrolled in a nursing class.

STATEMENT CHARGES

The following items may be charged to the student's account:

- Books and required school supplies (required school supplies limited to \$85 per semester).
- Private music instruction. Enrollment for all music instruction must be made through the Admissions Office for a full semester whether or not credit is desired. One semester hour of private music instruction consists of fourteen half hour lessons. Refunds will be granted only when the instructor is not available for lessons.

HOUSING

Residence Hall Costs

Dormitory accommodations for single students cost \$1,400 for the eight-month school year and are charged on a semester basis in August and January. Room charges are based on two students occupying one room. A student may, upon application to the residence hall dean, be allowed to room alone at an additional cost of \$275 per semester if sufficient rooms are available and s/he has approval from the Student Finance Office. It is the student's responsibility to have arranged for

a roommate unless specific arrangements have been made to room alone. No pets are allowed in the residence halls.

No refunds are made for vacation periods or absences from the campus. When a student withdraws, a prorated portion of the semester charge, beginning with the date of nonoccupancy of the room, will be refunded.

Residence Hall Deposit

A room deposit of \$100 is required of each dormitory student. In order to guarantee a room in the dormitory, payment should be made by July 1. After July 1, no room is held for a student whose deposit has not been paid. This deposit is held in reserve until the student graduates and/or permanently moves out of the dormitory.

Apartment/Mobile Homes

College-owned apartments and mobile homes may be rented by married students taking a minimum of six hours each semester. The apartments range in size from two to six rooms and are unfurnished. Rents range from \$165 to \$280 per month. Storage facilities are available for an additional \$10 per month. Rent charges are based on the date of issue and return of keys and proper clearance with the office of the Vice President for Finance. No pets or firearms are allowed in college housing.

Apartment/Mobile Home Deposit

Married students renting either an apartment or a trailer from the college are required to pay a housing deposit of \$150 of which \$75 is due with the housing application and the remaining \$75 at the time the apartment or trailer is rented.

Housing Deposit Refund

If a student gives notice before August 1 that s/he will not be attending, the housing deposit will be refunded. The deposit will not be refunded after August 1.

Damage or cleaning charges may also be charged to the student's account if the deposit is insufficient to cover these costs. The dormitory dean/Service Department will determine if the dorm room/apartment or trailer has been left clean and undamaged.

FOOD SERVICE

The cafeteria plan of boarding allows the dorm student the privilege of choosing food and paying for what is selected. Students are encouraged to eat healthfully by eating at the cafeteria or the Campus Kitchen where balanced meals are provided. Dormitory students will be charged a minimum of \$85 per month which will be prorated for vacations and holidays.

ADVANCE PAYMENTS

Regular: An advance payment of \$1,650 is required before registration with one-half of the advance payment (\$825) being held for second semester. For new students entering second semester the advance payment is \$825, and all other appropriate charges are applicable. When a married couple enrolls for a combined total of seventeen semester hours or less of classwork, they will be charged only one advance payment.

One-half of the advance payment (\$825) is held for second semester and earns interest at 2% less than prime per annum if: (1) the full advance payment (\$1,650) has been paid by September 1, and (2) the account balance as of December 31 is paid in full. Interest will be credited to the January statement.

Advance payments also earn interest during the summer months if (1) advance payment of \$825 or more is paid by June 1; (2) the account balance as of May 31 is paid in full. Interest will be credited to the September statement. No interest will be paid on partial advance payments or if there is a balance due in the account by May 31 or December 31.

For students residing in any dormitory or married student housing, a housing deposit is due before occupancy and is in addition to the advance payment.

International Students: In addition to the regular advance payment listed above, international students are required to pay the following:

Supplemental International Student Payment: \$3,000 is required to be paid before an Immigration I-20 form will be issued. It will be held until the student terminates study at Southern College. This deposit is not a part of, but in addition to, the regular advance payment required of all students entering Southern College.

Nursing Students: Upon acceptance to the clinical nursing program, students are required to send an advance payment of \$250 to hold their placement in the class. This payment also serves as the first semester's Nursing Education Associate Degree Fee. The \$250 fee is in addition to the Regular Advance Payment of \$1,650. There is also a \$250 fee charged to the A.S. nursing student's account second semester. If a student applies for the nursing program but does not attend the college, or changes his or her major, the deposit is refundable if the Department of Nursing is notified by August 1. After August 1, the nursing deposit is not refundable.

ADVENTIST COLLEGES ABROAD FINANCIAL POLICY

Students wishing to apply for study abroad under the Adventist Colleges Abroad (ACA) program must follow the procedures listed below:

1. Complete and submit the ACA application (obtain from Admissions Office) along with the \$100 application fee.
2. Make arrangements for the total amount of expenses and fees required by the selected college through the Southern College Student Finance Office at the time of application. Any difference in total cost and approved financial aid must be paid in cash prior to financial approval of the application.

METHOD OF PAYMENT

Residence hall and nonresidence hall students may choose one of the three methods of payment below:

Payment Plan I--Cash in Advance. When the total estimated charges for tuition (minimum 6 hours), room, and board for a semester are paid in cash at registration, a discount of 3% for the semester or 5% for the year is allowed on this cash payment. Amounts paid as a result of student loans, grants, or scholarships are excluded from the amount on which the discount is allowed. Students choosing to pay cash in advance must on or before registration time, pay the full amount required by the plan for the semester or year, less any advance payments or credits.

The following schedule outlines how *Payment Plan I* would work for both a semester and the year:

	Residence Hall Student		Non-residence Hall Student	
	Semester	Year	Semester	Year
Total estimated charges	\$5,580	\$11,160	\$3,980	\$7,960
(a) Less cash discount (3% for semester)	-167		-119	
(b) Less cash discount (5% for year)		-558		-398
Net cash due at registration	\$5,413	\$10,602	\$3,861	\$7,562

Note: For calculating the discount, estimated charges may be reduced by approved financial aid and scholarship awards (excluding student wages). Cash discount applies to the cash paid at registration.

Payment Plan II--Tuition Guaranteed Plan. The college will guarantee to the student that tuition will remain constant under the following provisions:

1. The tuition rate in effect at the time of the first contract will remain in effect until the student graduates provided full time continuous registration is maintained not to exceed four years excluding a one-year leave of absence which may be given for student missionaries and/or task force workers.
2. Total estimated cost for the year must be paid prior to or at fall registration.
3. Any cash withdrawals, except student earnings, will void the contract.
4. Participants in this plan are eligible for a five percent cash discount on the total estimated cost the first year of participation only. The next three years, the tuition rate will remain the same as year one; and a 5% discount will be given on room, board, and books only.
5. Dependents of denominational workers may deduct the denominational tuition assistance when making their payment; however, the tuition assistance must be received by the college from either the denominational employer or the denominational worker within two months after registration or the contract is void.
6. Student earnings may be withdrawn from the student's account and will not reduce the amount to be paid.
7. Costs in excess of the total estimated amount to be paid will be billed monthly and should be paid on a monthly basis or the contract is void.
8. Should the estimated cost be less than the amount paid, the credit will be refunded after June 1.
9. If the Payment Contract is broken for any of the above reasons, or the student withdraws during the school year, the student who re-enters Payment Plan II may do so based on the rates of enrollment for the new year.

This plan only guarantees the tuition rate--not the room, board, books, and other miscellaneous charges. The student/financial sponsor must prepay each year the total estimated costs.

Payment Plan III--Contract for Monthly Payments. Students desiring to pay educational expenses in installments on a monthly basis may choose this plan.

Monthly statements will be issued about the fifth working day of each calendar month. Cafeteria charges will be charged through the last day of each month. Accounts are due and payable upon receipt of statement according to the following schedule:

FIRST SEMESTER**Past Due Date**

August Statement	<ol style="list-style-type: none">1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.2. Plus the current month's charges less the current month's credits.	September 20
Sept. Statement	<ol style="list-style-type: none">1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.2. Plus the current month's charges less the current month's credits.	October 20
October Statement	<ol style="list-style-type: none">1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.2. Plus the current month's charges less the current month's credits.	November 20

SECOND SEMESTER

January Statement	<ol style="list-style-type: none">1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.2. Plus the current month's charges less the current month's credits.	February 20
February Statement	<ol style="list-style-type: none">1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment.	

SECOND SEMESTER, cont.**Past Due Date**

February, cont.	2. Plus the current month's charges less the current month's credits.	March 20
March Statement	1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment. 2. Plus the current month's charges less the current month's credits.	April 20

An example of estimated school costs on this plan without financial aid, work, or scholarships is as follows:

<i>Statement Date</i>	<i>Payment Date</i>	<i>Residence Hall Student</i>	<i>Non-Residence Hall Student</i>
Advance Payment	By registration	\$1,650	\$1,650
August 31	By September 20	1,585	1,052
September 30	By October 20	1,585	1,052
October 31	By November 20	1,585	1,052
January 31	By February 20	1,585	1,052
February 28	By March 20	1,585	1,051
March 31	By April 20	<u>1,585</u>	<u>1,051</u>
Total estimated payments		\$11,160	\$7,960

Students with unpaid accounts on the 20th of the month will be subject to cancellation of registration and/or ID cards invalidated until account is current.

Arrangement for final payment of the semester account must be made before semester examinations may be taken or before registration for a new semester.

INTEREST ON PAST-DUE BALANCE

Interest will be charged at a rate of 1% per month on any past-due balance still outstanding by the end of the month.

COLLECTION POLICY

Students completing or terminating their studies with the college are requested to make arrangements for payment of unpaid accounts. Payments due on noncurrent accounts that are not received by the last working day of the month will be charged a 1% (12% APR) per month

service charge. If arrangements are not made within 120 days after a student leaves Southern College, the unpaid account balance will be submitted to a collection agency or attorney. Since delinquent accounts are reported to the Credit Bureau systems, prompt payment of accounts builds credit ratings which will be important to the student in the future.

If the college deems it necessary to employ a collection agency or an attorney to collect defaulted accounts, all charges for these services, including court costs, if incurred, will be added to unpaid bills.

BANKRUPTCY

Recognizing that the discharge of a debt through bankruptcy proceedings prohibits a creditor from subsequently pursuing the collection of the debt, the college, upon notification of such discharge of a student's current school or loan account(s), complies with this legal prohibition. No further services will be extended.

TRANSCRIPTS, DIPLOMAS, AND TEST SCORES

It is the policy of the college to withhold transcripts, diplomas, test scores, certificates of completion, and other records if a student has an unpaid or past-due account at the school, or any unpaid account for which the college has co-signed.

Official grade transcripts will be issued for currently enrolled students when the students' accounts are current according to the payment schedule set forth above. No exceptions will be made.

Official grade transcripts for nonenrolled students will be issued when students' accounts are paid in full and when there are no delinquencies in the payment of student loans. No exceptions will be made.

To expedite the release of these documents, the student should send a money order or certified check to cover the balance of the account when requesting the documents. Under provisions of federal loan programs, Southern College withholds any records when payments for these loans become past due or are in default.

TUITION WAIVERS FOR INTERNSHIP CLASSES

The following policy applies for all internship classes with the exception of the Long-term Health Care Internship class. See the course description for that rate.

Students Taking Fewer Than 12 Hours Exclusive of Internship Hours

A two-thirds tuition waiver will be given on the internship hours. Total tuition is not to exceed the 12-16 hour rate.

Students Taking 12-16 Hours Exclusive of Internship Hours

No tuition waiver will be given if the addition of the internship hours does not bring the student's total hours to more than 16.

Students Taking More Than 16 Hours

A two-thirds tuition waiver will be given on the number of internship hours that bring a student's total hours to more than 16.

REFUND POLICIES*Complete Withdrawal from Classes*

A student who withdraws from all schoolwork during the semester will receive a tuition refund based on the date the completed withdrawal form with all the required signatures is filed with the Records Office. Tuition refunds are calculated as follows:

First week of the semester --- 100% less a withdrawal fee of \$50.00

Second week through the eleventh week --- 10% less per week

No refunds after the eleventh week

Partial Withdrawal

Refunds of tuition for semester hours dropped are made according to the date the drop form with all the required signatures is filed with the Records Office. Tuition refunds are calculated as follows:

First week of the semester --- 100%

Second week through the eleventh week --- 10% less per week

No refunds after the eleventh week

Shortened School Term (Summer or Other) Withdrawals and Changes

First two (2) school days --- 100%

Third (3rd day through end of term) -- Prorated through mid-term

CREDIT REFUND POLICY

Credit balances are refundable, upon request, 30 days after the monthly statement is received for the last month the student was in school in order to be certain that all charges have been processed. For example, if a student drops out of school in December, a full credit refund would not be made until after the January statement is prepared during the first week of February. When the credit balance is large, a portion may be refunded earlier upon request to the Student Finance Office.

If the student has received financial aid during the current semester, any credit balance will be credited to the aid funds, according to the Financial Aid Refund Policy (see page 34). Cash refunds will not be made to the student without authorization from the parent or financial sponsor.

HEALTH AND ACCIDENT INSURANCE

Southern College requires all students to be covered by health and accident insurance. Each student will automatically be enrolled in the college health and accident plan unless the s/he signs a waiver card at the time of registration indicating s/he does not want the college insurance because:

1. The student has other insurance equal to or better than the college insurance plan.
2. The student is covered under the SDA denominational health care plan.
3. The student does not live in college-owned housing and is taking less than six semester hours of classwork during the fall and spring semesters or less than three hours of classwork in the summer.

NON-LIABILITY FOR PERSONAL EFFECTS

When determining what to bring to campus, students should remember that the college is not responsible for the personal effects of any student even though such effects may be required by the college for student use, or required by the college to be stored in a designated location. College-carried insurance does not insure the personal effects of any individual. The college recommends that students consider carrying insurance to cover such losses.

WORKER'S COMPENSATION INSURANCE

As provided by the laws of the State of Tennessee, the college carries worker's compensation insurance to protect all employees in case of work-related accidents.

STUDENT BANKING SERVICE

When opening a student bank account, the student or financial sponsor may contact the Cashier's Office to make the proper arrangements. This is entirely separate from the student's school expense account. Withdrawals from this account may be made by the student in person as long as a credit balance and proper identification are provided. If a check is deposited into this account, the student must wait two weeks for it to clear the banking system before a withdrawal may be made.

CHECK CASHING

Students are encouraged to use their home banks or a local area bank for their personal financial services. The Cashier's Office will cash approved checks not to exceed \$300. No third party checks will be honored. Checks must be made payable to either the student or cash. Proper identification is required.

Each time a check is returned by a bank for insufficient funds, account closed, or any other reason, there will be an \$18 returned check fee made to the student's account. The student then forfeits the privilege of cashing future checks.

CREDIT CARDS

The Cashier's Office honors VISA, Master, and American Express cards for making payments on a student's account. **No cash withdrawal service is available from these cards** - this service may be obtained from a local bank.

When using a credit card to pay on an account, the following information must be supplied: 1) name of credit card being used; 2) cardholder's name; 3) credit card number; and, 4) expiration date.

STUDENT LABOR REGULATIONS

Work opportunities are available in departments and industries operated by the college and local private businesses. These employing agencies must serve their customers daily, necessitating a uniform work force. **Students are expected to maintain satisfactory job performance and meet all work appointments, including during examination week.** Work superintendents reserve the right to dismiss students if their service and work records are unsatisfactory. Should a student find it necessary to be absent from work, s/he must make arrangements with the work superintendent and, if ill, with Student Health Service.

Residence hall students are given preference in the assignment of work. Personnel/Student Labor personnel will assist students in finding jobs provided the 1) student arranges a class schedule that allows "blocks" of time for work, and 2) is physically able and willing to accept any job offer since the college is unable to provide "preference" work. Students must be enrolled for a minimum of six semester hours to be eligible for campus work.

A student accepting employment is expected to retain it for the entire semester except in cases where changes are recommended by the school nurse or Personnel/Student Labor Office. Should a student receive opportunities for more favorable employment during a school term, the transfer must be made through the Personnel/Student Labor Office and the two employing organizations. If a financial plan requires work, the student must NOT drop his/her work schedule without making proper arrangements with the Personnel/Student Labor Office. To do so may result in suspension from class attendance and invalidation of ID card until proper arrangements are made.

The student pay rate is not less than the current minimum wage rate. It may be higher if a student possesses special skills or training and shows responsibility and consistency.

Students may work off campus; however, permission may be withheld for off-campus employment that could be detrimental to a student's health or character development. Any exceptions to the financial policies will be considered by the Financial Appeals Committee.

SUMMER WORK INCENTIVE PROGRAM

1. Work supervisors may recommend raises for a student's summer wage within the pre-set wage rate scale.
2. Two-thirds of the dormitory student's summer rent to be refunded, provided:
 - A. A minimum of 200 hours of summer work is completed.
 - B. The student is enrolled for at least six hours for the fall term.
3. Any variation to the above plan must be approved by the Administrative Council.

LABOR FOR FOREIGN STUDENTS

Foreign students on non-immigrant visas are required by law to secure permission before accepting any off-campus employment. Foreign students with student visas are allowed to work on campus up to twenty hours a week. Wives may work only if they have student visas of their own or have immigrant visas.

STUDENT TITHING

Southern College encourages the payment of tithe and offerings by its student workers. In order to facilitate this practice, arrangements may be made by the student (except for those employed in the Federal Work-Study Program) to have 10% of his/her school earnings charged to his/her account as tithe and 2% for offerings. These funds are then transferred by the college to the treasurer of the Collegedale Seventh-day Adventist Church.

STUDENT MISSIONS PROGRAM/ TASK FORCE POSITIONS

Any student desiring to serve as a Student Missionary or in a Task Force position needs to work with the Chaplain's Office. The General Conference policy requires the completion of: Student Missions Orientation Class, RELP 099/101, prior to placement in a volunteer position. The orientation class is taught the last nine weeks of the second semester. Students who register for RELP 099 will not receive any academic credit hours; students who register for RELP 101 may receive two academic credit hours [i.e. RELP 099, Missions Orientation, 0 hours; RELP 101, Missions Orientation, 2 hours].

Those students who desire deferment on their student loan payments during their mission service placement must enroll in: NOND 227 Christian Service I, 6 hours, and NOND 228 Christian Service II, 6 hours.

To receive 12 hours of academic credit, the student must complete a full academic year of service. Students enrolled in NOND 227 and 228 must have taken RELP 099 as a prerequisite. A maximum of 12 hours is available during the year of service. Tuition is charged at 10 percent of the current rate. Specific details regarding academic assignments may be obtained from the Chaplain's Office.

Before final authorization may be obtained, all students going as Student Missionaries or Task Force workers must be cleared by the Student Finance Office.

POST GRADUATE TUITION PLAN

A Post Graduate Tuition Plan has been established for the purpose of assisting students who have graduated from an accredited college/university and have an earned bachelor's degree. This plan becomes effective May 1, 1993. The plan allows eligible students to enroll in classes for one-half tuition. Tuition rates are as follows:

1-11 Semester Hours	\$160.00/hour
12-16 Semester Hours	\$1,875.00
17+ Hours (in excess of 16 hours)	\$120.00/hour

The provisions that apply are:

1. To be eligible for the Post Graduate Tuition Plan, a student must have graduated with a bachelor's degree at least two years before entering the program.
2. Applicants must have a clear financial SC account and all loan payments must be up-to-date at the time of registration before the Post Graduate Tuition Plan is approved. To continue to participate in the plan, students must reapply each semester. If a participant's account or loan payment becomes delinquent, that student will lose his/her Post Graduate Tuition Plan privileges and cannot be reinstated.
3. Regular readmission criteria apply to this program. Completed applications and other college transcripts must be on file in the Admissions Office no later than four weeks prior to the beginning of the semester for which the graduate is applying.
4. Students wishing financial aid must apply through the Student Finance Office.
5. This plan is applicable to classes where space is available and where the hiring of new faculty or staff is not required. The Post Graduate Tuition Plan does not include private music lessons, in-

dependent study, directed study, student teaching, internships, A.S. nursing, the fifth year of a five-year degree program, or a program where a tuition discount is already in effect.

6. Since the Post Graduate Tuition Plan offer is for tuition only, it does not apply to lab fees, surcharges for applicable courses, dormitory charges, books, or cafeteria charges.
7. This program is open to a limited number of students. Southern College reserves the right to discontinue or amend this special tuition offer at the discretion of the college administration.

SENIOR CITIZEN TUITION PLAN

Persons over 65 years of age may audit any regular college course free of charge, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may take classes for college credit at one-fourth the regular rate, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may enroll in seminars, workshops, other courses offered outside the regular academic structure, and private lessons at full price.

FINANCIAL AID

Southern College provides financial aid for students in the form of loans, grants, scholarships, and employment. No applicant for financial aid will be denied assistance on the basis of sex, race, color, national origin, or ethnic group. The Student Finance Office follows established procedures and practices which will assure equitable and consistent treatment of all applicants.

Students are urged to contact the Student Finance Office, P.O. Box 370, Collegedale, Tennessee 37315-0370, (1-800-SOUTHERN), for information about and applications for financial aid. Applications received by May 1 will be given preference. Applications received after May 1 will be processed as long as time and funds permit.

General Requirements. Financial aid awards are made for one academic year to students who are accepted for admission, plan to take at least twelve semester hours of classwork each semester, and demonstrate financial need. Class load exceptions must be approved by the Student Finance Office. Recipients of government aid must hold U.S. citizenship or a permanent resident visa. (Visa documents must be submitted with aid application.) Students desiring aid must reapply each year, have a GED or high school diploma on file in the Records

Office, and continue to make satisfactory academic progress toward a degree to receive financial aid.

Academic Requirements. In order to be eligible for financial aid, recipients must maintain satisfactory academic progress toward a degree. (Satisfactory academic progress is defined in the following section.) If a student does not maintain satisfactory academic progress or fails to attend classes, prepare and submit required classwork, or take required examinations, financial aid will be suspended.

If a student whose financial aid has been suspended for any of the above reasons feels that unusual and unavoidable circumstances led to this suspension, the suspension may be appealed to the Academic Progress Committee. This policy is generally applied to financial aid from institutional and private sources as well as federal programs.

Financial Need Requirements. The financial aid program is administered in conjunction with the nationally-established policy and philosophy which is, that the parents are the primary and responsible source for helping a student to meet his educational costs. Financial aid is available to help fill the gap between the student's own resources (parental contribution, summer earnings, and savings) and the total cost of attending Southern College. The amount of parental contribution is based on the family's net income, number of dependents, allowable expenses, indebtedness, and assets. The Family Financial Need Analysis from the American College Testing Program or College Scholarship Service is used in determining a student's eligibility for financial aid.

Exceptions to the financial need requirements are private scholarships awarded on the basis of academic achievement.

SOUTHERN COLLEGE ACADEMIC PROGRESS FOR FEDERAL AND INSTITUTIONAL STUDENT FINANCIAL AID

According to the 1986 Higher Education Amendments, all financial aid recipients must maintain satisfactory academic progress toward a degree, both in a qualitative and a quantitative measure, in order to continue to receive financial aid.

A financial aid recipient's progress at Southern College will be based on the student's enrollment status which is determined by the number of hours attempted. Academic progress will be measured by the number of hours the student has successfully completed during the semester.

A financial aid recipient will be expected to complete not less than the minimum hours required by his enrollment status of:

FINANCIAL AID

1. Full time 12 hours or more
2. 3/4 time 9-11 hours
3. 1/2 time 6-8 hours

This would allow a student the equivalent of 10 full-time semesters to complete a four year degree; and the equivalent of six full-time semesters to complete a two year degree.

The formula for academic progress is: enrollment status (as outlined above) x 12 hours (full time equivalent) = hours needed for progress.

For the purpose of this policy, a student must also maintain a cumulative and resident grade point average above the suspension levels as stated in the following schedules:

<i>Cumulative Semester Hours</i>	<i>Required GPA Level (Includes Resident and Cumulative GPA)</i>
6 - 48	1.50
49 - 64	1.65
65 - 80	1.75
81 - 93	1.85
94 - 119	1.95
120 up	2.00

A student's financial aid will be suspended if s/he does not maintain satisfactory academic progress as set forth above.

Financial Aid Probation Policy

1. Students who fail to maintain "satisfactory academic progress" will be placed on financial aid probation the following semester. The recipient must see a financial aid counselor before aid will be released for the probationary semester. This aid is subject to adjustment or cancellation.
2. A minimum Southern College and cumulative GPA as listed in the requirements above must be attained by the end of the probation semester or financial aid will be suspended.

Procedure for Appeal and Reinstatement of Financial Aid

Students may submit a written appeal to the Academic Progress Committee describing the circumstances which contributed to their failure to make academic progress. This appeal must also include an outlined program of commitment to meet measurable satisfactory academic requirements.

When financial aid is suspended, a request for reinstatement may be made when the student has completed a minimum of 12 additional semester hours and has met the satisfactory academic requirements.

Provisions for Transfer Students

Financial aid for students transferring from other institutions will be determined by their academic standing, which will be calculated on all hours they have attempted. Students with a GPA below the policy stated above will be on financial aid probation provided that they were eligible for continuing aid at the institution from which they transferred.

If financial aid had been suspended at the previous institution, they must follow Southern College's procedure for appeal and reinstatement of financial aid.

FINANCIAL AID APPLICATION PROCEDURES

To apply for all types of financial aid, the following documents must be submitted annually for the federal, state, and institutional aid programs:

1. The Family Financial Statement (FFS) of the American College Testing Program or the Financial Aid Form (FAF) of the College Scholarship Service.
2. The Southern College application for financial aid (Form B).
3. Southern College Admissions application.
4. The financial aid transcript (required only of students who attended other colleges or universities before coming to Southern College).
5. Copies of parents' income tax return (exact signed copies of all schedules and W-2 forms sent to IRS).
6. Copies of student income tax return including W-2 forms.
7. Guaranteed Student Loan applications from hometown lender. (Southern College has arranged for last-resort lenders for students whose hometown lenders do not participate in the GSL program or for any reason refuse to make the loan).

Applications are available in January of each year and may be obtained by contacting Southern College Student Finance Office. Students are urged to complete applications as early as possible after the family income tax returns have been completed. Income tax returns only have to be *completed*, not necessarily mailed to the IRS before submitting the financial aid application.

Financial Aid Award Procedures

An official Offer of Financial Aid will be sent to each applicant. To confirm and reserve the funds offered, the student must return the signed acceptance of the offer within **ten days** of receipt.

Financial aid awards are made on a rolling basis, as long as funds are available, with the neediest students receiving priority of funds. The financial aid award package will usually consist of: 1) work, 2) loan, 3) grant or scholarship.

Disbursement of Financial Aid Funds

Financial aid awards are disbursed equally at the beginning of each semester. To have funds released to statements, students must sign vouchers, and other required documents at the Disbursement Office in Wright Hall. Funds cannot be credited to student statements until this procedure is followed.

Financial Aid Overawards

When financial aid recipients receive additional resources not included in the financial aid award letter, they must be reported to the Student Finance Office. Federal regulations prohibit "overawards," therefore, when the total of all resources exceeds the allowable student budget, financial aid awards must be adjusted. When financial aid funds have already been credited to the student's statement, any refunds due or overawards will be charged to the student's account.

STUDENT FINANCIAL AID REFUND AND REPAYMENT POLICIES

Financial Aid Refund Policy

The refund policy for students withdrawing from classes is outlined on page 25.

Since financial aid is considered to be used first for direct educational costs (tuition, books, room, and board), when a student withdraws from classes and under the refund policy receives a refund of tuition and room rent, the refund will be used to reimburse the financial aid credited to the student account. The allocation of the refund will be applied as follows (according to the refund formula):

1. SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT
2. PERKINS LOAN (Formerly NDSL)
3. STAFFORD LOAN (Formerly GSL)
4. PARENT STUDENT LOAN/SUPPLEMENTAL LOANS FOR STUDENTS
5. PELL GRANT
6. STATE GRANT
7. INSTITUTIONAL SCHOLARSHIPS AND LOANS
8. PRIVATE SCHOLARSHIPS
9. PARENTS/STUDENT

Refund Formula:

Total amount of Federal and State financial aid
(excluding employment) awarded for period

Total amount of all financial aid awarded for
period (excluding employment)

Rationale for Allocation of Refund and Repayment Formula

According to the order of allocation:

1. Supplemental Educational Opportunity Grant--These funds are very limited and can be reawarded to needy students who may have had to take two loans due to the lack of grant funds.
2. Perkins Loan--To reduce the amount of debt to the student; and the recovery of funds can be reawarded to other needy students.
3. Stafford Loan--It is to the student's advantage to reduce the amount of debt that will have to be repaid.
4. Parent Loans/Supplemental Loans for Students--These loans are obtained generally to offset or reduce their expected contribution.
5. Pell Grants are from an entitlement program and cannot be reawarded.
6. Recipients of State Grants are generally recipients of Pell Grants.
7. Institutional scholarships and loan funds are very limited; therefore, these funds can be reallocated to other students.
8. Private scholarships are usually based on achievement and not need.
9. Parents and students are primarily responsible for educational expenses.

Financial Aid Repayment Policy

There are specific repayment policies for students who withdraw and have received financial aid in excess of direct educational costs. An example would be the student who received a Stafford Loan and did not use the full amount for educational costs. A student owing a repayment to any federally funded student aid program cannot receive any type of federal student aid for future enrollment periods until repayments have been made.

VETERANS

Southern College is approved for the training of veterans as an accredited training institution. V.A. benefits are not available to students on the Orlando Campus. Those who qualify for educational benefits should contact the nearest Veterans' Administration Office.

Veterans or other eligible persons are required to attend classes in order to be eligible for educational benefits. Southern College is required to report promptly to the V.A. the last day of attendance when an eligible student withdraws or stops attending classes regularly.

A recipient may not receive benefits for any course that does not fulfill requirements for his stated degree and major. Audited courses, non-credit courses (except for a required remedial course), and correspondence work cannot be certified.

TYPES OF FINANCIAL AID

Scholarships

General Institutional Scholarships

Southern College institutional scholarships are awarded from a variety of scholarship funds to students who have financial need, are achieving academically, and are working part time. These awards usually range from \$200 to \$1,000 per year depending upon the student's need and availability of funds.

If the student's grade point average (GPA) falls below the required level, the SC scholarship will be deferred or canceled. The amount of the SC scholarship will be reduced by the amount the student receives in funding from other resources that exceeds the total budgeted expenses for the school year subject to federal regulations.

The following scholarships are awarded to eligible students regardless of financial need:

ACADEMIC SCHOLARSHIPS are awarded to incoming freshmen who graduate with a 3.50 or higher GPA from academies or secondary schools, are recommended by their faculty, and enroll at Southern College for a minimum of twelve semester hours.

For those incoming freshmen students who have a high school GPA of 3.85 or above and an ACT composite score of 28 or above, a high academic scholarship of \$6,500 over four years is available. Two thousand dollars will be awarded the first year at SC and \$1,500 for each of the following three years. The student must maintain an SC GPA of 3.50 and carry not less than 14 semester hours of class work each semester enrolled.

LEADERSHIP SCHOLARSHIPS are awarded to incoming freshmen who have served as S.A. President, S.A. Vice-President, S.A. Spiritual Vice-President, Senior Class President, Yearbook Editor, and School Paper Editor, provided they enroll at Southern College for a minimum of twelve semester hours.

NATIONAL ACADEMIC RECOGNITION AWARDS are awarded to finalists in the National Merit contest. Finalists receive tuition-free scholarship for four continuous years at Southern College. They must maintain an SC GPA of 3.50 and enroll each semester for not less than 15 semester hours.

ACT SCHOLARSHIPS--Incoming freshmen with a composite score of 26-30 are eligible for a \$700 award if they maintain a college GPA of 3.00 each semester of the first year they are enrolled at Southern College. Incoming freshmen with a composite score of 31-36 are eligible for an \$850 award if they maintain a college GPA of 3.25 each semester of the first year they are enrolled at Southern College. Students must enroll at Southern College for a minimum of twelve semester hours.

SUMMER CAMP SCHOLARSHIPS--Students participating in conference-sponsored summer camp programs will receive credit from Southern College for 33.33 percent of the net amount receipted to the student's statement upon enrollment of a minimum of 12 semester hours. Funds will not be matched for past due accounts for prior years.

STUDENT MISSIONARY/TASK FORCE SCHOLARSHIPS--Students who were approved by Southern College to serve as Student Missionaries or Task Force Workers may upon the completion of a year of service apply for a \$1,000 scholarship through the Chaplain's Office if they are enrolled at SC for a minimum of 12 hours.

CHURCH AND/OR CONFERENCE MATCHING PLAN--Southern College will participate in a matching plan, matching one-third of the total scholarship funds received from a church or conference. The student must be enrolled for a minimum of 12 hours. Funds will not be matched for past-due accounts for prior years and will not exceed \$1,000 per student per year. The participating church and/or conference must complete and sign the matching application form certifying that their appropriation came from local church funds, not from the student, his parents, or his relatives, and is not for wages or pay for services rendered by the student. These forms may be obtained from the Student Finance Office.

Grants

THE PELL GRANT PROGRAM is a federal program which provides grant assistance directly to eligible first-degree undergraduate students. A student's eligibility for a Pell Grant is based on a congressionally-approved formula which considers family financial circumstances. Pell Grant recipients may receive funds on a yearly basis to a maximum of five years.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT--Limited funds are available to students with exceptional financial need.

STATE STUDENT INCENTIVE GRANTS--These grants are made possible from federal and state funds to the residents of Alaska, Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Jersey, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Vermont, Washington, and West Virginia. Students should check with their states' grant agencies for additional information.

Loans

PERKINS LOAN (formerly National Direct Student Loan)--Under this program students can borrow money from the federal government through the school. Repayment and five percent interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment.

FEDERAL NURSING STUDENT LOANS are available to nursing students only. Repayment and five percent interest begins nine months after a student graduates, leaves school, or drops below half-time enrollment.

STAFFORD LOANS (Formerly Guaranteed Student Loans) are available through lending agencies in each of the states. A student may borrow from a bank, savings and loan association, credit union, or other lender, and the state agency will guarantee the loan.

Category of Borrower	Annual Loan Limits	Aggregate Loan Limits
First and Second Year	\$2,625	
Third Year or beyond	\$4,000	\$17,250

The federal government pays the interest on the loan while the student is in school. Repayment and 8% interest begin six months after a student graduates, leaves school, or drops below half-time enrollment. For new borrowers who seek loans for a period of enrollment beginning on or after July 1, 1988, the interest rate is 8% for the first four years of repayment and 10% thereafter until the loan is paid in full.

PARENT LOANS (PLUS)/SUPPLEMENTAL LOANS (SLS)--A parent or self-supporting student may borrow from a bank or other lender and a state or private non-profit agency will guarantee the loan. A parent may borrow \$4,000 per year to a limit of \$20,000.

PLUS and SLS borrowers generally must begin repaying both principal and interest within 60 days after the last loan disbursement. However, if a deferment applies (including a deferment for being in school) borrowers do not begin repaying any principal until the deferment ends.

Note: Deferments do not apply to interest, although the lender may let the interest accumulate until the deferment ends.

PLUS and SLS loans have variable interest rates, adjusted each year. For the 1991-1992 award year, the interest rate was 9.34%. The interest rate for the 1992-93 award year will be determined in June 1992. The interest rate for each loan is shown on the promissory note, signed by the borrower when the loan is made.

Work

COLLEGE WORK-STUDY PROGRAM--Under the work-study program, the employer pays a small part of the student's wages, and the government pays the rest. Most work-study positions are on campus. Students can work part-time while they are in school; they can work full time during the summer and other vacation periods. The basic pay rate is usually the current minimum wage. This may vary depending on the skill and experience needed for the job.

OTHER GRANTS, LOANS, AND SCHOLARSHIPS

The following grants, loans, and scholarships are available to students meeting the above requirements or having exceptional academic achievements. Details concerning amounts and qualifications for recipients of these funds can be obtained from the Student Finance Office.

Dorothy Ackerman Vocal Scholarship Endowment Fund

George Alden Nursing Scholarship for nursing students from Massachusetts

Frances Andrews Journalism Scholarship Fund

Appalachian Nursing Scholarship for nursing students from the Appalachian Mountain region

Birmingham First SDA Church Scholarship Fund

V. Robert Bottomley, M.D., Memorial Scholarship Endowment Fund

Theresa Brickman Scholarship for office administration majors

Burdick Scholarship for religion, behavioral science or science majors

Business Administration Scholarship for business majors

Caldwell Nursing Loan for nursing students planning to serve the Chattanooga community

Cartinhour Foundation Scholarship and Loan

Cashman-Offer Scholarship Fund

Merle Peabody Chapman Scholarship Fund

Chatlos Foundation Scholarship for nursing students from Florida

Drs. Tony Y.T. and Delma A.Q. Chen Scholarship Endowment Fund

Lucille Coppock Education Scholarship Endowment Fund

John Christensen Scholarship for chemistry majors

- Penna S. S. Chong Memorial Scholarship* for nursing students
(Preference for Far East resident students of Asiatic origin)
- Alvin Christensen Memorial Loan* for junior or senior biology or
natural science majors
- Otto Christensen Loan* for potential Bible instructors or theology
majors
- Class of 1969 Loan* for juniors and seniors
- Florence Cloutier Memorial Scholarship Endowment Fund*
- Communication Scholarship*
- Frankie Collins Loan* for ministerial students
- Conger Memorial Scholarship* for education majors or minors
- Edythe Stephenson Cothren Vocal Music Scholarship* for junior/senior
voice majors or minors
- Wilfred and Kathryn Cowdrick Scholarship Fund*
- K. R. Davis Scholarship Endowment* for sophomore through senior
Student Association officers
- George B. and Olivia Dean Scholarship* for education majors
- Duge Family Scholarship Endowment Fund*
- Paul Fisher Scholarship*
- Harry H. Goggans Scholarship*
- K. W. Grader Nursing Scholarship* for nursing students from Florida
- Daina Griffin Nursing Scholarship*
- Edgar O. Grundset Scholarship Fund*
- Hearst Foundation Scholarship* for nursing students from the
Appalachian region
- Henson Mathematics Scholarship* for math majors
- Dr. James W. Hickman Scholarship Fund*
- D. W. Hunter Scholarship* for theology students
- Louise Hurt Memorial Scholarship*
- William Iles Scholarship*
- Johnston Nursing Scholarship* for nursing students from North
Carolina
- Jonathan Lincoln Art Scholarship* for art majors or minors
- Irad C. Levering Loan* for elementary and secondary education
majors
- Lions Club Nursing Scholarship Fund*
- Luddington Memorial Scholarship*
- Nellie Henderson Maddox Scholarship* for music major or minor with
keyboard emphasis
- Manor Care Scholarship* for office administration majors
- McClusky Scholarship Fund* for biology majors
- McKee Latin American Scholarship*

Ruth McKee Memorial Scholarship Fund
Marvin Midkiff Scholarship Endowment Fund
Mitzelfelt Band Scholarship for members of the band
Dorothy and Harold Moody Scholarship for junior and senior history majors
Carolyn Niemeyer Scholarship for nursing majors
Nursing Magazine Scholarship for nursing majors
Nutrix-Primus Nursing Scholarship for nursing majors
Odom Scholarship Fund for religion, theology, or education majors
Eva Pangborn Memorial Scholarship
Donald R. and Betty Phillips Scholarship Endowment Fund
Stephen C. and E. Marie Poch Scholarship Fund
Reile-McAlexander Memorial Loan for nursing students
A. F. Ruf Family Scholarship for English and history majors
So-Ju-Conian Anonymous Birthday Scholarship for descendants of Southern Junior College students
Southern College Symphony Scholarship Fund
Linda Beardsley Stephens Memorial Loan for nursing students
Daniel W. Stephenson Graphic Arts Scholarship
Stover Scholarship Fund
Sudduth Memorial Scholarship for potential teachers
Ambrose Suhrie Scholarship for elementary education majors
Anton Julius Swenson Loan
Tait-Curry Family Scholarship for nursing, business, or chemistry majors
Mollie Tanzer Scholarship
Dennis and Joan Taylor Scholarship Fund
William Taylor Scholarship for students from Southeast Asia College
John C. and Sue Dale Thompson Scholarship
Sanford and Martha Ulmer Scholarship
Wayne VandeVere Scholarship for business and accounting majors
Mattie Vroman Memorial Revolving Loan Fund
W.K.B.G. Families Scholarship Endowment for student missionaries
Everett Watrous Scholarship
E. G. White Ministerial Scholarship
Drs. John B. and Alice L. Wong Scholarship Fund
Scott Jeffery Yankelevitz Memorial Scholarship

STUDENT LIFE AND SERVICES

A college is not only classroom instruction, but also a mode of association. The effectiveness of the college program is enhanced if students develop their interests and meet their needs through participation in the nonacademic activities provided. Students are encouraged to take advantage of the facilities and opportunities planned for their cultural, social, and spiritual growth.

RESIDENCE HALL LIVING

Living in a college residence hall with its daily "give and take" prepares the student to meet life with equanimity, teaches respect for the rights and opinions of others, and offers first-hand experience in adjusting to a social group.

To assure students this beneficial experience, the college requires those students who take more than three semester hours of classwork and who are unmarried, under 23 years of age, and not living with their parents or other approved relatives in the vicinity, to reside in one of the residence halls.

REHABILITATION ACT (1973) Section 504: Services for Students with Special Needs

Southern College is dedicated to the elimination of architectural and prejudicial barriers which prevent any qualified person from attending. All applications are welcomed. Students who anticipate the need for special services are encouraged to arrange with the Admissions Office for a visit to the campus at which time the applicant will receive information concerning all features of campus life and can share with the college officials any information pertinent to personal needs.

DINING

For the promotion of student health and enjoyment, Southern College provides a complete cafeteria service, organized to serve the students' needs. The spacious dining hall is an inviting center of social and cultural life at the college, and service by the cafeteria staff is available for the many student and faculty social functions. Auxiliary dining rooms are available for meetings of various student or faculty organizations.

HEALTH SERVICE

The Health Service is administered by a nurse director in cooperation with a college physician and the Vice President for Student Services. The director uses the physician's standing orders and maintains regular office hours. The college physician holds regular clinic hours each weekday morning.

An infirmary is provided and staffed in the evenings and at night on an on-call basis by live-in registered nurses who are continuing for their B.S. degrees.

The Health Service is available to all dormitory occupants and all students taking eight or more hours (three hours in the summer). The infirmary is available to all dormitory occupants. There is no charge for seeing a nurse or using the infirmary. There is a minimal charge to cover costs of equipment used in some treatments. Medications given are charged by the pharmacy.

All students taking eight hours or more must purchase the Student Accident and Sickness Insurance Plan or show proof of adequate coverage by another policy. Spouses of students and those taking less than eight hours may also purchase the plan. A policy brochure describing complete benefits and terms is given to each student at registration. In case of major illness, students may be referred to off-campus hospital facilities.

GUIDANCE AND COUNSELING SERVICE

During registration each student is assigned an academic adviser who will assist in program planning and give advice and guidance on academic questions throughout the school year. Students may also seek counsel concerning academic or personal problems from any member of the faculty.

Students with personal problems who wish assistance from a professional counselor should consult the Vice President for Student Services or Director of Testing and Counseling. Personnel trained in psychology and counseling are available to those with serious social and personal problems.

The testing service works in close cooperation with the counseling service in providing guidance information to both students and counselors. Students are urged to take advantage of the testing service as a means of obtaining information useful in choosing a profession or occupation.

ORIENTATION PROGRAM

Southern College has a personal interest in the success of the student desiring a college education. There is much that the student must do to get acquainted with the academic, social, and religious life

of the college by perusing this bulletin and the *Southern College Student Handbook*. Instruction and counsel are given which will help the student better understand the college program and what is expected of him/her as a citizen of the college community.

Orientation for new freshman students is held prior to registration for the fall term. It includes examinations and instruction helpful in course planning. The student is introduced to the facilities, purposes, and functions of the college. Social occasions are also provided when students may meet faculty members and fellow students. All new freshman students are required to attend the orientation program.

STUDENT EMPLOYMENT SERVICE

Southern College encourages every student enrolled to organize his/her educational program on the study-work plan. It is a policy of the college to give students first priority for jobs. If a student wants to work, is physically and emotionally able to work, and has arranged his class schedule to accommodate a reasonable work schedule, he should be able to obtain employment on campus. Students seeking employment should contact the Personnel/Student Labor Office.

SENIOR PLACEMENT SERVICE

One of the personnel services of the college is that of assisting graduates in securing appointments for service. The Placement Service distributes information concerning senior students to a wide list of prospective employers. The offices of Student Services and Testing and Counseling serve as the liaison sources in bringing graduates and employers together.

STUDENT ASSOCIATION

Every student at Southern College who is taking eight or more semester hours of classwork is a member of the Student Association with voting privileges in the election of officers. Opportunities for leadership development and for cooperation in achieving the objectives of Southern College are afforded by the Association. The Association assists the college administration and faculty in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it.

The Association's activities are coordinated and communicated through the Student Senate and Cabinet and their several committees. The activities include the publishing of the weekly newspaper, *Southern Accent*; the yearbook, *Southern Memories*; the weekly announcement sheet, *Campus Chatter*; and the student-faculty pictorial directory, *Joker*.

The activities and responsibilities of the officers and the detailed organization of the Student Association are outlined in the *Student Association Constitution and Bylaws*.

CAMPUS ORGANIZATIONS

Aside from the Student Association and its committees, more than thirty campus organizations provide opportunities for enrichment, leadership training, and enjoyment. They include church-related organizations--Campus Ministries, Student Ministerial Association, Collegiate Adventists for Better Living, and the Literature Evangelists Club; clubs related to academic interests sponsored by the departments; social clubs--Married Couples' Forum, Sigma Theta Chi (women's residence hall), and Upsilon Delta Phi (men's residence hall); and special interest or hobby clubs.

Students may join any of the clubs but must have a cumulative grade point average of 2.25 or a grade point average of 2.50 for the previous semester to hold any elected office.

CONCERT-LECTURE SERIES

Each year a concert-lecture series featuring significant artists, lecturers, and film travelogues is provided for students, generally in connection with the weekly assembly program. The cost of admission for students is included in the tuition.

STANDARDS OF CONDUCT

In harmony with the objectives of the college, high standards of behavior are maintained to encourage the development of genuine Christian character. Mature Christian students of sound spiritual and social integrity appreciate standards that elevate and ennoble. Admission to Southern College is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and interests are in harmony with the ideals of the college and who willingly subscribe to the social program as ordered are welcomed. It therefore follows that since students at Southern College receive an education subsidized by the Seventh-day Adventist Church, those who engage in activities designed to be detrimental to the church on or off campus will not be knowingly accepted or retained.

A student who is out of harmony with the social policies of the college, who is uncooperative, and whose attitude gives evidence of an unresponsive nature may be advised to withdraw without specific charge. The use of tobacco or alcoholic beverages, the improper use of drugs, movie theater attendance, card playing, dancing, profane or vulgar language, hazing, and improper associations are to be avoided.

Each student is expected to acquaint himself with the standards of conduct published in the *Southern College Student Handbook*. The handbook includes levels of social discipline and the appeal route. A copy may be obtained from the office of the Vice President for Student Services. Interim announcements of policies adopted by the faculty are of equal force with those listed in official publications.

ASSEMBLY AND WORSHIP SERVICES

In private parochial education it has been shown that elimination of residence hall worships and all school-wide convocations is the first step toward the separation of the school from its sponsoring church. Convocation exercises in the residence halls and for the entire student body serve educational and religious purposes. They also provide an element of unity which is one of the most desirable features of private education such as is found at Southern College. The religious emphasis weeks and the weekend church services assist in the spiritual growth of the students. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.

ACADEMIC POLICIES

PLANNING A COURSE OF STUDY

When planning for college, students should consider in detail the course of study which will lead to their desired professions or occupation. If a firm decision about the choice of life work has not been made before entering college, students may take a general program of study exploring several fields of knowledge during the freshman year. This approach need not result in loss of credits if carefully planned.

The college offers programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, Bachelor of Social Work, Associate of Arts, Associate of Science, and Associate of Technology degrees, various pre-professional curricula, and a one-year occupational certificate program.

When planning their course work, students should acquaint themselves with the programs of study and graduation requirements outlined in this CATALOG. Freshman students may consult faculty members during the summer months before the beginning of the fall term. Students planning to teach should consult the Department of Education and Psychology so as to include teacher education courses as a part of their program in order to qualify for denominational and state certification.

Degree candidates are responsible for satisfying all degree requirements. Students may choose to meet the requirements of any one catalog in effect during the period of residency. If students discontinue their education for a period of twelve months or more, they must qualify according to the catalog in force subsequent to their return.

GENERAL DEGREE REQUIREMENTS:

Baccalaureate Degree

The general degree requirements for a baccalaureate degree are as follows:

- ◆ Satisfactory make-up of admissions deficiencies. (See page 11).
- ◆ A minimum of 124 semester hours with a resident and cumulative grade point average of 2.00 (C) or above.* Students earning the Bachelor of Music degree will take 132 semester hours.
- ◆ A minimum of 40 hours of upper division credit, to include at least 14 upper division hours in the major for a B.A. degree and at least 18 upper division hours in the major for all other degrees.

- ◆ Completion of a major and minor (two majors accepted) for a B.A. degree or completion of a major for other degrees with a cumulative grade point average of 2.25 in the major,* completion of the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than a "C-" will not be applied on a major or minor. Grades of "C" or better are required for the Nursing major and grades of "C-" or better are required for Nursing cognate courses.
- ◆ More than one major may be earned provided all courses required for each major and its cognates are completed. Each major must include a minimum of 20 semester hours that do not overlap with any other major or minor.

More than one minor may be earned provided all courses required for each minor are completed. Each minor must include a minimum of 12 semester hours that do not overlap with any other major or minor.
- ◆ Completion of an examination as required by the department.
- ◆ Students wishing to obtain a second degree will need to complete, beyond the 124 minimum hours required, a minimum of 30 hours, including 16 hours upper division, and a new major.
- ◆ Completion of General Education requirements as spelled out in the "General Education Requirements" section of this CATALOG.

GENERAL DEGREE REQUIREMENTS: Associate Degree

- ◆ A minimum of 64 semester hours and a resident and cumulative grade point average of 2.00 (C) or above. Nursing majors need 69 semester hours.
- ◆ Completion of a major, the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than "C-" will not be applied on a major.

*For educational certification, the minimum grade point average (GPA) of 2.50 must be met both in education and in the field of certification. In elementary education, a GPA of 2.50 is required in the major and in required non-major subjects. The music major requires a GPA of 2.25 both in applied music and other music courses. The nursing major requires a GPA of 2.25 in cognate courses as well as in the major. The medical technology major requires minimum grades of C- and a minimum average of 2.25 in the major and cognates.

- ◆ Students who have completed one associate degree and who wish to obtain another associate degree may do so upon completion of the curriculum prescribed for the second degree.

The work completed for the second degree must include at least 24 hours in residence over and above the number of hours earned for the first degree. If the second associate degree is earned subsequent to the first associate degree, the requirements for the second degree will be governed by the provisions of the CATALOG in effect at the time the student re-enters the college for work toward the second degree.

- ◆ Students who wish to obtain an associate degree at the time they receive a baccalaureate degree may do so if the degrees are in different fields. If requirements for an associate and a baccalaureate degree in the same field are completed at the same time, only the higher degree will be conferred.

ONE-YEAR CERTIFICATE REQUIREMENTS

- ◆ A minimum of 32 semester hours which meet the requirements of a specific one-year program.
- ◆ A resident and cumulative grade point average of 2.00 (C) or above. Grades in the technical area below "C-" will not be accepted.

GENERAL REQUIREMENTS: Minor

- ◆ A minimum of eighteen semester hours of which six must be upper division credit.

CLASS STANDING

Freshmen	0-23 semester hours
Sophomores	24-54 semester hours
Juniors	55-93 semester hours
Seniors	94 semester hours

Eligibility for class office requires a grade point average of 2.25 and a good citizenship record.

GRADUATION REQUIREMENTS

Degree Candidacy: A student may become a degree candidate when s/he enters upon the school term during which it will be possible to complete all requirements for graduation. Formal application for graduation must be made during the fall registration of the senior year.

Dates of Graduation: The date of graduation will be (a) the date of commencement for those graduating at the close of the school year; (b) the last day of the semester for those finishing first semester; and (c) for others, the last day of the month in which graduation requirements are met. A commencement service occurs at the end of the second semester of each school year.

Transcripts: Before a student will be allowed to graduate, transcripts of all correspondence and transfer credits must be received at the Office of Records.

Participation in Graduation Exercises: Students are allowed to participate in commencement exercises only if they have completed all the courses they need for graduation or if they submit approved plan for completing their courses during the summer.

Prospective Summer Graduates: A \$200 fee is charged to students who are listed on the May graduation program as prospective summer graduates. This fee is refundable only if the degree requirements are completed by August 31. Criteria for students to be listed on the graduation program as prospective summer graduates are as follows:

1. They must lack no more than six hours of regular coursework or eight hours of internship.
2. They must submit a plan showing how they can complete the hours they lack in the summer.
3. They must have all Incomplete grades made up, challenge examinations completed, etc. at the same time as the May graduates--three to four weeks prior to commencement.
4. They must meet the minimum GPA standards at Southern College, overall, and in the major as of midterm of the second semester.

Deferred Graduation: Students ordinarily are allowed to graduate under the requirements of the CATALOG of the year in which they enter the college, or of any subsequent year in which they are in attendance, provided they do not discontinue attendance for twelve months or more. Students who are studying for a baccalaureate degree and fail to graduate within six calendar years (four years for an associate degree), must plan to conform to the current CATALOG.

RESIDENCE REQUIREMENTS

Baccalaureate Degree: Thirty semester hours of credit must be completed in residence immediately preceding the conferment of the baccalaureate degree. These hours must include 16 upper division, with eight upper division in the major and three upper division in the minor fields.

Associate Degree: Twenty-eight semester hours of credit must be completed in residence immediately preceding the conferment of the associate degree. Sixteen of these hours must be in the major area of study.

Certificate Programs: Eighteen semester hours of credit must be completed in residence immediately preceding the conferment of a one-year certificate.

Transfer Credit: Unless prior arrangements are made with the Vice President for Academic Administration, the college will not accept transfer credit earned at another college or university during any session the student is simultaneously enrolled at Southern College.

UPPER DIVISION CLASSES

Students must complete forty semester hours of 100 and 200 level courses (lower division) before enrolling in a 300 or 400 level course (upper division). **The English Composition and mathematics requirements in area A, Basic Academic Skills, of General Education must be met before enrollment in upper division classes.**

GENERAL EDUCATION

While recognizing the validity of many different general education programs, the faculty of Southern College have designed the following sequence that provides development of academic skills and opportunities for self-fulfillment, and conveys basic values of both the Seventh-day Adventist Church and western civilization. Students may exercise considerable latitude when selecting courses to comply with General Education requirements. A comprehensive general education test is required of all students before an associate degree is awarded or before they register with junior class standing.

GENERAL EDUCATION OBJECTIVES AND REQUIREMENTS

Semester Hours
Assoc. Bachelor's

AREA A. BASIC ACADEMIC SKILLS

A graduate of Southern College can use the skills of reading, writing, and mathematics.

Underlying all general education requirements are the basic academic skills of English and mathematics. It is important for a graduate to be able to discern an author's organization, arguments, and supports, and to write coherently, fluently, and grammatically. Graduates need numeric and symbolic computation skills to function successfully in our scientific and technological society.

Semester Hours
Assoc. Bachelor's

All English Composition and mathematics requirements in Area A must be completed before upper division work is undertaken. Upper division transfer students may take Area A requirements concurrently with upper division classes.

1. English

3-6 6-9

ENGL 101 is required for an associate degree; ENGL 101 and 102 for a bachelor's degree. Students with an Enhanced ACT English score below 15 must take ENGL 099 before enrolling in ENGL 101.

2. Mathematics

0-3 0-3

Students with a Mathematics ACT score below 22 must take one mathematics course (100 level or above). MATH 080 is required of all students who meet none of the following criteria: 1) ACT Mathematics score of 16 or above, 2) ACT Mathematics Elementary Algebra subscore of 8 or above, 3) Completion of high school Algebra II with a grade of C or better.

3. Candidates for the bachelor's degree must complete three writing-emphasis classes. These classes are identified by a "(W)" following the course name, [e.g., History of the South (W)] in the departmental listings. One such class must be in the student's major field and one must be outside the major field. The third may be chosen from any area.

AREA B. RELIGION

6 12

A graduate of Southern College has a knowledge of the Bible and a sense of Christian community based on the teachings, beliefs, and history of the Seventh-day Adventist Church.

A correct understanding of the human condition results from a knowledge of the Bible as God's word, a commitment that springs from that truth, and a system of values derived from such knowledge and insight.

Transfer students must take 3 hours for each year or part thereof in attendance at an SDA college with a minimum of 6 hours. Bachelor's degree students must take at least three hours from each of the sub-areas and include one upper-division class.

1. Biblical Studies

All RELB courses.

2. Religion

All RELT courses. (Only one of RELT 317, 318, 424, will apply.)

Semester Hours
Assoc. Bachelor's**AREA C. HISTORY, POLITICAL
AND ECONOMIC SYSTEMS**

A graduate of Southern College has knowledge of history and the skill to analyze political and economic systems. It is essential that one have an historical perspective in a society that allows its members a voice in shaping its political, social, and economic institutions.

Students with less than one secondary school credit for World History must include one of the following: HIST 174, 175, 364, 365, 374, 375, 386 or 389.

- | | | |
|--|---|---|
| 1. <i>History</i> | 3 | 6 |
| All HIST courses. | | |
| 2. <i>Political and Economic Systems</i> | | 3 |
| All PLSC courses; GEOG 204 (elementary education majors only), GEOG 306; ECON 213, 224, 225. | | |

**AREA D. LANGUAGE, LITERATURE,
FINE ARTS**

3 9

A graduate of Southern College can recognize the impact of arts and humanities on life and integrate such knowledge into personal experience.

Language, literature, speech, and the fine arts convey ideas, values, and emotions. An acquaintance with these modes of communication enhances the ability to express oneself and fosters an appreciation of the cultural heritage of world civilization and the complexities of human existence.

Bachelor's degree students must include at least 2 hours in each of 3 sub-areas. Students entering Southern College who have less than two secondary school credits of foreign language and who are pursuing a Bachelor of Arts degree must complete the elementary level of a foreign language.

- 1. Foreign Language**
FREN 101-102, 211-212; GRMN 101-102, 211-212; SPAN 101-102, 211-212; RELL 271-272, 311-312, 471-472.
- 2. Literature**
All literature courses offered by the English Department and ENGL 326.
- 3. Music and Art Appreciation**
HMNT 205; MUHL 115, 320, 321, 322, 323; MUCH 215; ART 218, 318, 344, 345.
- 4. Speech**
SPCH 135, 136, 236.

AREA E. NATURAL SCIENCE

3-6 6-9

A graduate of Southern College comprehends the basic concepts of science and can apply the scientific method to problem solving.

A study of the sciences develops an inquiring attitude toward one's environment. It provides individuals with empirical and rational methods of inquiry and an awareness of both the potential and the limitations of pure and applied science in solving problems.

Bachelor's degree students must take at least 3 hours from each of 2 sub-areas. Only one of the following may apply: BIOL 424, PHYS 317, 318. Students who have less than two secondary school units in science, and a Science Reasoning ACT standard score less than 14, must take 3 hours of science above the usual requirements; e.g. associate degree students must take 6 hours and bachelor's degree students must take 9 hours.

Southern Scholars must take a sequence of two classes from the same department. See the "Honors Studies Sequence" section of the CATALOG for clarification.

1. *Biology*

BIOL 101-102, 103, 104, 151-152, 225, 226, 314, 424.

2. *Chemistry*

CHEM 103, 111-112, 113-114, 151-152.

3. *Physics*

PHYS 137, 155, 211-212, 213-214, 317, 318.

4. *Earth Science*

ERSC 105, 106.

**AREA F. BEHAVIORAL, FAMILY,
HEALTH SCIENCES**

2 5

A graduate of Southern College will have a knowledge of and be able to apply the dynamics of personal relationships, social interaction, and healthful living toward effective service.

The basic social units significantly shape people's lives, and a knowledge of their workings is necessary to understand ourselves and others.

Bachelor's degree students must include at least 2 hours in each of 2 sub-areas.

1. *Behavioral Science*

PSYC 124, 128, 217, 224, 233, 315, 349, 367, 377, 415, 465; SOCW 211, 212, 233, 296, 375, 424, 465, 496; EDUC 217, 427;

**Semester Hours
Assoc. Bachelor's**

1. *Behavioral Science, cont.*
all SOCI courses except 201, 223, 365.
2. *Family Science*
BUAD 128, SOCI 201, 223, 233, 365;
PSYC 233.
3. *Health Science*
HLED 173, 203; FDNT 125.

AREA G. ACTIVITY SKILLS

3 6

A graduate of Southern College will understand how to live a balanced life by following the principles of wellness and using leisure time wisely. The Seventh-day Adventist philosophy stresses the balanced development of the whole person. Toward this goal, education in the use of leisure time is important, particularly in creative, recreational, and practical skills. Associate degree students may take a maximum of 2 hours in any sub-area; bachelor's degree students may take a maximum of 3 hours in any sub-area. All students must take at least 1 hour from G-3.

1. Creative Skills

All MUPF courses; ART 104-105, 109, 110, 235; ENGL 314; JOUR 225, 315.

2. Practical Skills

ACCT 103, 221-222; BUAD 126; CPTR 104, 105, 106, 107, 120, 126, 131, 132, 217; CPTE 245, 249, 345, 349; EDUC 250; ENGL 313; ENGR 149, 150; JOUR 103, 205; LIBR 125; OFAD 105, 115, 214, 218, 225, 228, 245, 345; TECH 145, 149, 154, 164, 174, 223, 264, 364.

3. Recreational Skills

All PEAC courses. Optional pass/fail grading is available for these courses.

SOUTHERN SCHOLARS (Honors Program)

The honors program is designed for students who bring to their baccalaureate studies a high degree of motivation and intellectual curiosity. Special projects, interdisciplinary studies, and designated honors courses provide a challenging and intellectually stimulating educational experience. Degrees of depth and breadth are attained in this experience beyond those normally attained in regular baccalaureate studies.

The program is administered by an Honors Committee. This committee admits students to the program and discontinues honors status of those who fail to maintain minimum program standards. Its members also advise individual Southern Scholars and continually monitor their progress.

Eligible students will be invited to become Southern Scholars during registration. Freshmen are eligible if they have a high school GPA of 3.70 or higher. Other students must have completed at least 31 and at most 62 semester hours with a cumulative GPA of 3.50 or higher.

To continue as Southern Scholars, students must complete a minimum of twelve credits each semester and thirty-one credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a B (3.00) average or higher in the honors sequence courses and maintain a minimum cumulative GPA of 3.50. All honors students are expected to graduate within a four-year period unless extenuating circumstances justify an extension by the honors committee.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee in the case of transfer students. Students already enrolled at Southern College who wish to take honors sequence classes at another institution must secure prior approval from the honors committee.

After completing one year in the honors program, Southern Scholars may receive a scholarship for the cost of auditing one class for each semester that they remain in the program. Beginning with the junior year, the student will also receive a scholarship covering a three-hour class each semester. Also, a scholarship will be granted to cover Honors Seminar HMNT 451, 452. The "per-hour" rate for a 16-semester hour class load will be the basis for calculating these scholarships.

HONORS STUDIES SEQUENCE

A. General Education

Honors students must meet regular general education requirements with the following stipulations:

1. Area B-2. One of the following courses must be selected: RELT 424 or RELT 467.
2. Area D-1. Foreign language competency must be attained at the intermediate level.
3. Area D-2. ENGL 445 must be selected.
4. Area D-3. HMNT 205 must be selected.
5. Area E. MATH 181 or MATH 215 and one of the following science sequences must be selected: BIOL 151-152; CHEM 151-152; PHYS 211-212 with PHYS 213-214.

B. Honors Seminar

HMNT 451, 452, a sequence of eight seminar sessions, one each month, September through April. Taken during the junior or senior year.

C. Project (2-3 hours, Directed Study)

A significant interdisciplinary project demonstrating an understanding of the relationship between the student's major field and some other discipline. Directed study research, writing, special performance, appropriate to the major in question. The honors committee expects the project to be of sufficiently high quality to justify public presentation. The project must be approved by the honors committee in consultation with the student and his supervising professor.

GRADUATION WITH HONORS

Students graduating with a cumulative GPA of 3.50 or above will have the degree conferred as follows: 3.50-3.74, *cum laude*; 3.75-3.89, *magna cum laude*; 3.90-4.00, *summa cum laude*. The appropriate designations will appear on the diploma. Students completing the honors program will, in addition to the above designation, be graduated as Southern Scholars.

HONOR ROLL/DEAN'S LIST

At the conclusion of each semester of the school year, students who have carried a minimum of 12 semester hours and who have attained the following grade point averages will be included in the honors group indicated:

3.25 Honor Roll

3.50 Dean's List

3.75 Distinguished Dean's List

MAJOR AND MINOR REQUIREMENTS

Southern College offers 36 majors and 27 minors for students wishing to qualify for a baccalaureate degree. Each major consists of thirty hours or more in the chosen field of specialization of which a minimum of fourteen for a Bachelor of Arts degree and eighteen for all other bachelor's degrees must be upper division credit. The total semester hours required for each major for the Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees varies with the field of specialization chosen.

All minors consist of at least eighteen semester hours. Six hours of a minor must be upper division credit.

The specific requirements for majors and minors are given under the respective disciplines in the section "Courses of Study."

DEGREES AND CURRICULA

The Bachelor of Arts degree consists of four years of course work that places a student's major field of study in the context of a liberal

arts education. To encourage a wide range of studies, a minor is required. A foreign language component is required.

The Bachelor of Science degree consists of four years of course work that places the student's major field of study in the context of a liberal arts education. The degree permits somewhat greater concentration in the field of study. No minor or foreign language study is required except as specified for certain majors.

The Bachelor of Business Administration degree is a professional degree consisting of a four-year program with concentrations available in various fields of business. Requirements for this degree are outlined in the Business and Office Administration Department section.

The Bachelor of Music degree is a professional degree consisting of four years of course work designed to meet the needs of students wishing to receive teaching credentials. Requirements for this degree are outlined in the Music Department section.

The Bachelor of Social Work degree is a professional degree consisting of a four-year program of courses designed to meet the needs of students wishing to go into the social work profession. Requirements for this degree are outlined in the Behavioral Science Department section.

The Associate of Arts degree is a two-year program designed to meet the needs of students who wish to pursue a short general studies program.

The Associate of Science degree is a two-year program designed to meet the needs of students who wish to pursue a short occupational or pre-professional program.

The One-Year Certificate is available for students desiring training in Auto Body Repair. Requirements for the certificate are outlined in the Industrial Technology Department section.

Pre-Professional Curricula are programs designed to prepare students to enter professional schools. In some cases pre-professional curricula will lead to an associate degree.

CURRICULUM CHART

<u>Department</u>	<u>Degree</u>	<u>Major</u>	<u>Minor</u>
Allied Health	BS	Medical Technology	
	AS	Pre-Dental Hygiene	
	AS	Pre-Occupational Therapy	
	AS	Pre-Physical Therapy	
Art			Art
Behavioral Science	BS	Beh Sci-Family Studies	Behav Sci Sociology
	BSW	Social Work	
Biology	BA	*Biology	Biology
	BS	*Biology	

<u>Department</u>	<u>Degree</u>	<u>Major</u>	<u>Minor</u>
Business & Office Administration	BBA	Accounting	Business Admin
	AS	Accounting	
	BS	Business Admin	
	BBA	Computer Info Systems	
	BS	Long-Term Health Care	
	BBA	Management	Office Admin
	BBA	Marketing	
	BS	*Office Admin	
	AS	Office Admin	
Chemistry	AS	Pre-Health Info Admin	
	BA	*Chemistry	Chemistry
	BS	*Chemistry	
Computer Science & Technology	BBA	Computer Info Systems	Computer Science
	BA	Computer Science	
	BS	Computer Science	
	AS	Architectural Studies	
	AS	Computer Applications	
	AS	Computer Science	
Education & Psychology			Education
	BA	Psychology	Psychology
	BA	Psychology (Elem Ed K-8)	
	BS	Soc/Lang Arts (Elem Ed 1-8)	
		Secondary Teaching--see *asterisked majors	
Engineering Studies	AS	Engineering Studies	
English	BA	*English	English
General Studies	AA	General Studies	
Health, PE, & Recreation	BS	*Health, PE, Recr	Hlth, PE, Recr
	BS	Health Science	
	BS	Corp/Com Wellness Mgmt	
History	BA	*History	History
			Political Economy
Industrial Technology	Cert	Auto Body Repair	Technology
		Graphic Arts Prep	
		Technical Plant Services	
Journalism	BA	Broadcast Journalism	Broadcasting
	BA	Journ (News Editorial)	News Editorial
	BA	Public Relations	Public Relations
Mathematics	BA	*Mathematics	Mathematics
	BS	*Mathematics	

ACADEMIC POLICIES

<u>Department</u>	<u>Degree</u>	<u>Major</u>	<u>Minor</u>
Modern Languages		(1 year abroad req)	(1 semester abroad req)
	BA	French	French
	BA	German	German
	BA	Spanish	Spanish
	BA	International Studies	
Music	BA	Music	Music
	BMus	*Music Education	
Nursing	AS	Nursing	
	BS	Nursing	
Physics	BA	*Physics	Physics
	BS	*Physics	
Religion	BA	Religious Studies	
	BA	Religion-Church Ministry	Practical Theology
	BA	*Religion Teaching Min	Religion
			Biblical Languages

Cert = One-year certificate program

*Secondary teaching certification available for these disciplines

PRE-PROFESSIONAL CURRICULA

Southern College offers pre-professional and pre-technical programs in a wide variety of fields which may prepare students for admission to professional schools or to enter upon technical careers. The following pre-professional curricula are offered at Southern College:

Anesthesia	Osteopathic Medicine
Dental Hygiene	Pharmacy
Dentistry	Physical Therapy
Law	Radiology Technology
Medical Technology Medicine	Respiratory Therapy
Occupational Therapy	Veterinary Medicine
Optometry	

An A.S. degree in Allied Health is available to students who fulfill pre-professional requirements in the allied health fields of Dental Hygiene, Health Information Administration, Occupational Therapy, and Physical Therapy. Pre-professional and technical admission requirements may vary from one professional school to another. The student is, therefore, advised to become acquainted with the admission requirements of the chosen school.

Detailed requirements for non-degree pre-professional curricula are outlined by department or in the section on "Interdepartmental Programs" (See Index).

REGISTRATION

Students are expected to register during the scheduled registration periods designated in the school calendar. The registration process is complete only after all procedures have been met and registration forms are returned to the Office of Records. Freshmen are required to participate in the orientation activities.

Late Registration. Permission to register late must be obtained from the Director of Records. Students failing to register during the scheduled registration periods will be charged a late registration fee. The course load of a late registrant may be reduced according to the amount of classwork missed. No student may register after two weeks of the semester have elapsed.

Changes in Registration. To avoid changes in registration, students should carefully consider the program of courses necessary to meet their objectives. To avoid subsequent adjustments, a balance should be maintained between the course load, work program, and extracurricular activities.

To make program changes, students must obtain the appropriate change of registration voucher at the Office of Records. After obtaining the necessary signatures indicating approval of the change, they must return the form to the Office of Records. Course changes and complete withdrawals from the school become effective on the date the voucher is filed at the Office of Records. A fee will be assessed for each change in program after the first week of instruction.

A student may not change from one section to another of the same course without the approval of the instructor.

A student may withdraw from a class up to two weeks after mid-term and receive a grade of "W" automatically. A student withdrawing from a class after that date and up to two weeks before the last day of classes will be assigned a grade of "W" or "WF" by the teacher. The grade for any withdrawal during the final two weeks of the semester will automatically be "F."

Auditing Courses. With the approval of the department, students may register on an audit basis in courses (other than private lessons) for which they are qualified. Auditors are to be admitted to classes of limited enrollment only if there are places after all students who wish to enroll for credit have been accommodated. Class attendance is expected but examinations and reports may be omitted. With the approval of the instructor, a student may change a course registration from audit to credit or from credit to audit only during the first week of instruction. No credit is given for courses audited, and the fee is one-half of the regular tuition charge.

Canceled Classes. The Vice President for Academic Administration or a department may cancel a class for which fewer than six students enroll. This policy applies to ordinary classes but not to directed study courses, private lessons, and other special classes such as special methods of secondary teaching. Students enrolled in canceled classes should confer with their advisers to determine alternate means to complete their schedules.

COURSE LOAD

College courses are expressed in semester hours. A semester hour consists of one fifty-minute class period per week for one semester. Thus, two-semester-hour classes meet two hours a week and three-semester-hour classes meet three hours a week. A laboratory period of two and one-half to three hours is equal to one class period. Students should expect to study up to two hours outside of class for each fifty-minute period the class meets. Ideally, a sixteen-semester-hour class load should require up to 32 hours of study each week by the student. Except by permission of the Vice President for Academic Administration, a student may not register for eighteen or more semester hours.

To qualify for a baccalaureate degree in four years, a student must average between fifteen and sixteen hours per semester. The summer term may be used to advantage by students wishing to complete degree requirements in less than four years or by students having to take reduced programs of studies during the regular academic year. The typical class load during the summer is one three-hour class per session.

Study-Work Program. It is important that the student adjust the course load to achieve a reasonable balance in study and work. During registration the student should confer with his adviser in planning the proper balance of study and work. In determining an acceptable study-work program, the following will serve as a guide:

<u>Course Load</u>	<u>Maximum Work Load</u>
16 hours	16 hours
14 hours	20 hours
12 hours	26 hours
10 hours	32 hours
8 hours	38 hours

ACADEMIC ADVISEMENT

Southern College is committed to assist every student in the area of academic advisement. Every full-time student is assigned an academic adviser from his/her major field and is required to consult with the adviser before registering for classes.

In planning the program of studies for each semester, the student should carefully follow the recommended sequence of course requirements outlined in this CATALOG. The final responsibility for meeting graduation requirements is the student's.

To avoid possible deficiencies or final curriculum conflicts, students should periodically check with the Records Office to determine whether all curriculum requirements are being met in an orderly and logical sequence. Seniors must file an application for graduation at the fall registration of their senior year.

As early as possible in the process of curriculum planning, students who have chosen a career in teaching should consult the Teacher Certification Officer regarding the requirements for teaching credentials.

FULL-TIME STUDENT

Students enrolled for twelve or more semester hours and students in the last semester of their senior year who are taking all the courses required for graduation (but no fewer than eight semester hours) will be classified as full-time students. The completion of nine or more semester hours will constitute full-time enrollment for the summer. Students receiving financial aid should consult the Student Finance Office for the definitions of a full-time student set up by the various agencies which offer aid.

GRADING SYSTEM

Mid-semester and semester grade reports are issued to the student and parents of students termed "dependent" for income tax purposes. Only semester grades are recorded on the student's permanent record. The following system of grading and grade point values is used:

A	4.0 grade points per hour	D	1.0 grade points per hour
A-	3.7 grade points per hour	D-	0.7 grade points per hour
B+	3.3 grade points per hour	F	0.0 grade points per hour
B	3.0 grade points per hour	W	Withdrawal
B-	2.7 grade points per hour	WF	Withdrew Failing (0.0 grade points per hour)
C+	2.3 grade points per hour	AU	Audit
C	2.0 grade points per hour	I	Incomplete
C-	1.7 grade points per hour	P	Pass
D+	1.3 grade points per hour		

A student may receive an "I" (Incomplete) because of illness or other unavoidable delay. Students who are eligible for an incomplete must secure from the Office of Records the proper form and file the application with the teacher to receive an incomplete. There is a charge of

\$7.50 for processing grades of incomplete. Any incomplete which is not removed by the end of the following term (Fall, Spring, Summer) will automatically become an "F."

A course may be repeated before the student takes a more advanced course in the same field. Only the last grade will be counted on repeated courses. No course may be repeated more than once without permission from the Vice President for Academic Administration.

The grade point average is calculated by dividing the total number of grade points earned by the hours attempted.

STUDENT RECORDS

A student's record is regarded as confidential, and release of the record or of information contained therein is governed by regulations of the federal law on "Family Educational Rights and Privacy." Only directory information, such as a student's name, address, telephone listing, birthplace and date, major fields of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended, may be released by the institution without consent of the student unless the student has asked SC to withhold such information.

Parents of students termed "dependent" for income tax purposes are entitled to access to the student's educational records. The law also provides for the release of information to college personnel who demonstrate a legitimate educational interest, other institutions engaged in research (provided information is not revealed to any other parties), and certain federal and state government officials.

A student may inspect and review records and is entitled to challenge the content of records.

A more thorough explanation of records may be obtained from the Office of Records. The Director of Records will further explain and clarify the Family Educational Rights and Privacy Act to students, parents, or interested parties upon request.

ACADEMIC HONESTY

Morally and spiritually, Southern College is dedicated to scholastic integrity. Consequently, both students and faculty are required to maintain high, ethical Christian levels of honesty.

Faculty Responsibilities:

1. Teachers must explain clearly the requirements for assignments, examinations, and projects, such as "open book," "take home," or "peer collaboration."

2. Teachers may assume "no collaboration" is the rule unless they state otherwise.

Student Responsibilities:

1. Students assume responsibility to avoid plagiarism by learning the proper procedures for acknowledging borrowed wording, information, or ideas. Otherwise students might innocently misrepresent others' material as their own.

2. Students unfamiliar with procedures for citing sources should confer with their teachers.

3. Students are to assume that all course work is "no collaboration" unless stated otherwise by the teacher.

Departmental Policies:

Some departments, because of the nature of their programs, have additional honesty policies which have the same force as those published here. Such policies will be presented to students before implementation.

Procedures for Handling Academic Dishonesty:

1. When a teacher suspects academic dishonesty in some form, such as cheating or plagiarizing, the teacher must first confront the student with the dishonesty. If the student and teacher cannot resolve the situation, or if the student's grade will be affected, then the Vice President for Academic Administration must be consulted.

2. In established instances of academic dishonesty, the usual procedures for the teacher to follow will be to:

- a. Give the student a failing grade on the exam, assignment or project if the magnitude of either is not sufficient for failing the class.
- b. Give the student a failing grade in the class if failing the exam, assignment or project would constitute failing the class. The teacher will then write up the incident and state the penalty administered, giving a copy to both the Vice President for Academic Administration and the student.

3. Two incidents of academic dishonesty make a student eligible to be dismissed from college. However, the student may then appeal the action through the established appeal procedures spelled out in the "Grievance Procedure" section of this CATALOG.

ACADEMIC PROBATION AND DISMISSAL

When for any reason a student's Southern College or cumulative GPA falls below 2.00, the student will be placed on academic probation and restricted from holding office in any student organization or being

a member of any touring group. Those on academic probation will not be allowed to participate in academic activities causing class absences.

Any baccalaureate senior with a grade point average of less than 2.25 in his/her major will also be placed on academic probation. Candidates for an associate of science degree must have a GPA of at least 1.95 before being accepted for their final year and at least 2.00 after attempting 53 or more semester hours. Candidates for a one-year certificate must have at least a 2.00 average at the end of the second semester of enrollment. No more than one additional semester of enrollment will be permitted. If the 2.00 grade point average is not then reached, the student will be dismissed.

Transfer students must have a grade point average of at least 2.00 in order to be eligible for regular admission to Southern College.

A student will be subject to academic dismissal when the Southern College or cumulative grade point average fails to reach the levels indicated below. The academic record will be reviewed by a committee, and the Vice President for Academic Administration will notify the student in writing of the committee's decision.

<i>Semester Hours Attempted</i>	<i>G.P.A./Subject to Dismissal</i>
6 - 48	1.50
49 - 64	1.65
65 - 80	1.75
81 - 93	1.85
94 - 116	1.95
117 - up	2.00

A student academically dismissed may not be readmitted until two sessions (for this purpose the summer is counted as one session) have elapsed. Eligibility for readmission shall include successful college-level work taken in another institution or other evidence of maturity and motivation.

Students receiving financial aid must also meet an academic progress policy set by the federal government. For further explanation see page 31, "Southern College Academic Progress for Federal and Institutional Student Financial Aid."

RIGHT OF PETITION

Students who believe there is a valid reason for requesting variance from or exception to an academic policy stated in the CATALOG may make a petition to the Vice President for Academic Administration for consideration of their case after obtaining the advice and signature of the department chair of their major. The petition must contain a state-

ment of the request and supporting reasons. Students will be notified in writing by the Vice President for Academic Administration of the action on petitions within five working days. Petition forms are available from the Records Office.

GRIEVANCE PROCEDURE

Students who believe that their academic rights have been infringed upon or that they have been treated unjustly with respect to their academic program are entitled to a fair and impartial consideration of their cases. They should do the following to effect a solution:

1. Present the case to the teacher or teachers concerned.
2. If necessary, discuss the problem with the department chair.
3. If agreement is not reached at this level, submit the matter to the Vice President for Academic Administration.
4. Finally, ask for a review of the case by the Grievance Committee, chaired by the Vice President for Academic Administration or his designee and including three other faculty members and two students selected by the Academic Affairs Committee. Both the student and the teacher involved in the case are entitled to appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three days of the committee meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the teacher involved or the Vice President for Academic Administration.

ABSENCES

Class. Attendance at class and laboratory appointments is expected. Teachers prepare an absence policy for each class, which includes an explanation of penalties, if any, for absences, and the procedure for making up work, if such is allowed. It is the responsibility of teachers to publish their policies for each class at the beginning of each semester, but it is the students' responsibility to familiarize themselves with the practices of each teacher from whom they are taking classes. Generally speaking, teachers will not excuse absences for reasons other than illness, authorized school trips, or emergencies beyond the students' control.

Students are not penalized if they incur absences while participating in school-authorized activities, but they are held responsible for work they miss and it is their responsibility to initiate arrangements to make up their assignments. One and one-half absences are given for missing a 75-minute class, two for missing a 100-minute class, etc.

Examination. Because of problems concerning time, expense and fairness, final examinations will be taken as scheduled in the official examinations schedule. In the case of illness verified by Student Health Service or a physician, death in the immediate family, three examinations scheduled consecutively in one day, or four or more examinations scheduled in one day, a final exam may be rescheduled upon approval by the teacher and the Vice President for Academic Administration. The rescheduled examination will be given at a time convenient to the teacher.

When examinations are rescheduled because of three scheduled consecutively in one day or four in one day, the last examination of the day will normally be the one rescheduled. Examinations rescheduled for any reason other than those listed above, may require a fee of \$63 per examination. All rescheduling requests will be made on a form available at the office of the Vice President for Academic Administration.

Assembly. Assemblies are held each Thursday at 11:00 a.m. During weeks of spiritual emphasis, assemblies are held on Tuesday as well. Occasionally, assemblies will be held in the evening or may begin at 10:30 a.m. on Thursday. All students are required to attend 16 assemblies each semester. Failure to meet this assembly requirement may result in suspension of registration. Exceptions to the assembly attendance requirement are made by the Office of Student Services only for legitimate direct work or class conflicts with scheduled assemblies. Any excuses for absences from assembly must be approved by the Vice President for Student Services.

A special series of orientation assemblies is scheduled during the fourth summer session.

LIMITATIONS ON CLASS ATTENDANCE

Classes at Southern College are open to registered students only. Information disseminated in the classroom or other places of learning is the primary product that the college sells, hence visitors may not expect to enter such gatherings freely. To attend classes visitors must be official guests of the institution with legitimate business in a classroom or have the permission of the instructor.

Visitors who attend classes may not exercise the right to engage in the discussions of a class unless invited to do so. Classes are gatherings at which college employees organize learning experiences about pre-arranged topics as listed in the catalog rather than public forums. Registrants who pay tuition can expect their class rights to be protected from the intrusion of anyone who has not similarly paid for the course.

Teachers and the institution reserve the right to remove legitimate students from classes if their behavior threatens the purposes of the class by exceeding the bounds of normal academic freedom.

Teachers conducting extension classes from other institutions on the Southern College campus share the rights spelled out by this policy.

WAIVER EXAMINATIONS

Upon the approval of the department chair and the Vice President for Academic Administration, students may obtain a waiver of curricular requirements by successfully completing a comprehensive examination--written, oral, manipulative, or otherwise, as determined by the department involved. A fee of \$48 per examination is charged.

NONTRADITIONAL COLLEGE CREDIT

In addition to credit earned in the traditional classroom setting, Southern College accepts credit earned by two other means--challenge examinations and correspondence courses.

The goals and objectives of the college emphasize not only facts and concepts but also values and attitudes which are not easily transmitted through correspondence courses or measured by examinations. These values and attitudes can best be developed by the student's interacting over a period of time with peers and teachers committed to moral excellence, critical thinking, and the pursuit of truth. For this reason, most college credits should be earned through class participation. However, the college will permit a maximum of one-fourth of the credit required for a given degree to be earned by these nontraditional means.

College Credit by Examination. The college recognizes three types of examinations for credit: challenge examinations prepared by a department which must be passed at "B" level or above, approved College Level Examination Program (CLEP) subject examinations which must be passed at the sixty-fifth percentile or above, and the Advanced Placement Examinations which must be passed with a score of three or better. A student may challenge a given course by examination only once. No CLEP or challenge exam may be attempted after the student has been enrolled in that course beyond the second week of a semester. **No course may be challenged as part of the last thirty hours of any degree.** Grades are recorded for departmental challenge examinations and scaled scores are recorded for nationally normed examinations. Permission to take a challenge examination while in residence must be obtained from both the department chair and the Vice President for Academic Administration.

Students may earn a maximum of twelve hours of credit by examination in courses that do not appear in the college catalog if the evaluating tests are approved by the Academic Affairs Committee.

Credit for challenge and/or validation examinations will not be placed on a student's permanent record and is, therefore, not transferable until that student has successfully completed twelve semester hours in residence at Southern College.

Fees charged for challenge examination and credit are listed under "Special Fees and Charges" in the financial section of this CATALOG.

Additional information concerning challenge examinations may be obtained from the Office of Records or the Testing and Counseling Center.

Correspondence. A maximum of twelve semester hours of correspondence or extension credit may apply toward a baccalaureate degree program and eight hours toward an associate degree.

Griggs University, a department of Home Study International, Washington, D.C., is the officially recognized correspondence school. Southern College recommends Home Study International for those students needing correspondence credit and accepts all such credits when the study program is approved by the college prior to enrollment. The college accepts credits from correspondence schools which are accredited by NUCEA (National University Continuing Education Association) on the basis that credits are accepted from other regionally accredited colleges.

A student will be permitted to carry correspondence work while in residence only if the required course is unobtainable at the college. Correspondence courses, whether taken while in residence or during the summer, must be approved in advance by the college.

Correspondence work may not apply on the upper division requirements of the major or minor. A minimum grade of "B" must be earned to apply on the lower division requirements for a major. A course in which the student earned a grade of "D" or "F" while in residence may not be repeated by correspondence. No correspondence credit will be entered on the student's record until s/he has earned a minimum of twelve hours in residence with an average of at least "C." Official transcripts must be in the Office of Records before a diploma will be ordered. The graduation date will be the last day of the month after the official transcript is received.

TRANSCRIPTS

Official transcripts of a student's academic record may be obtained by the student upon a written request to the Office of Records. The request must include the student's signature and payment of \$3 in

cash, check, or money order for each transcript ordered. Same-day service is available for \$6. Because of legal difficulties, telephone requests from students and telephone or written requests from other members of the student's family cannot be honored.

A student may receive an unofficial transcript for evaluative purposes without charge by applying in person at the Office of Records. Official transcripts given directly to a student will be stamped "Student Copy." No transcript will be issued for a student whose account is not paid in full or who is delinquent in payment of student loans. No exceptions will be made.

SEQUENCE OF COURSES

A student may not receive credit for a course which is a prerequisite to a course for which s/he has already received credit.

ACADEMIC ENRICHMENT SERVICES

E. A. ANDERSON LECTURE SERIES

The E. A. Anderson Lecture Series is an annual feature of the business curriculum. The series is made possible by the generosity of E. A. Anderson of Atlanta, Georgia, for the purpose of giving the student a broader understanding of the business world. The public is invited to attend the lectures free of charge; however, for a fee, continuing education credit is available. Lectures are presented at 8 p.m. in the E. A. Anderson Business Seminar Room, Brock Hall, Room 338.

EUGENE A. ANDERSON HEILLER ORGAN CONCERT SERIES

The Anderson Heiller Organ Concert Series was initiated in 1986 to provide world-class organ concerts. These concerts and workshops are presented by foremost organists from throughout the world. Selected performances are broadcast internationally on the American Public Radio Program, "Pipe Dreams." The series is made possible through the generosity of Eugene A. Anderson of Atlanta, Georgia, for the education and enjoyment of the students and the public. Because of its uniqueness, this series attracts organists and other fine arts enthusiasts from all areas of the country.

The Anton Heiller Memorial Organ, a 70-stop 108-rank tracker, was dedicated in the Collegedale Seventh-day Adventist Church in April 1986. A second instrument, a mean-tone organ with two manuals and 13 stops, is housed in Ackerman Auditorium. Both were built by John Brombaugh and Associates of Eugene, Oregon.

FLORENCE OLIVER ANDERSON LECTURE SERIES

Each year the Nursing Department at Southern College of Seventh-day Adventists brings nationally recognized experts in the health field on campus to address the professional community. Southern College believes education to be a dynamic lifelong process and is committed to providing professional nurses with continuing education opportunities, as well as exposing student nurses to the importance of self-initiated education.

This series of seminars is dedicated to excellence in nursing and is made possible by the generosity of the late Florence Oliver Anderson.

CHAMBER MUSIC SERIES

Ackerman Auditorium in J. Mabel Wood Hall is the setting for the Chamber Music Series. Each semester two or three artists and/or ensembles provide a variety of listening experiences for students, faculty, and the community. Artists are chosen in such a fashion that over a four-year period a student can become acquainted with solo and ensemble music of many style periods. Master classes are often scheduled in conjunction with a concert.

STALEY CHRISTIAN SCHOLAR LECTURE SERIES

The Thomas F. Staley Foundation provides the Department of Religion with funds for a speaker to come on campus once a year. This individual is the speaker for a chapel service, usually holds a table-talk session during the lunch hour at the cafeteria, and serves as guest lecturer at several religion classes.

CLASSIC FILM SERIES

Christian education involves the difficult challenge of learning to live in a secular society while remaining critical of its values. To this end, the Classic Film series, sponsored by Student Services and the History Department, seeks to present films that are historically significant but also informative and entertaining. They are intended to augment the educational and cultural experience of students at the college level and encourage the application of critical thinking to popular culture. Critical notes are provided to aid in deciphering the film's latent content from its manifest content.

E. O. GRUNDSET LECTURE SERIES

The E. O. Grundset Lecture Series is jointly sponsored by the Southern College Chapter (Kappa Phi) of the Beta Beta Beta National Biological Honor Society and the Biology Department. Five or more lectures are presented each semester by guest speakers. The general public is invited.

The lectures are divided into two categories. The *Technical Research Seminars* are designed to update students, faculty, and the community on current biological research as well as to illustrate to students how biological knowledge is acquired through research. The *Natural History Lectures* are less technical and provide a general understanding of organismic and ecological biology, either by a description of the plants or animals in a certain region or an account of the behavior, habits, or ecology of certain species.

ROBERT H. PIERSON LECTURE SERIES

The Robert H. Pierson Lecture Series brings to the Department of Religion recognized speakers to address faculty, students, and the community on topics of interest in the religious world and in the Seventh-day Adventist Church.

The selected individual usually speaks at a Friday evening and Sabbath morning service in the Religion Chapel, and holds a discussion session Sabbath afternoon.

INSTRUCTIONAL MEDIA

The Instructional Media Service provides audio-visual services to the college administration, faculty, staff, and students. The full-time staff includes a director, secretary, and service technician.

LIBRARIES

McKee Library provides both print and nonprint educational materials for the students and faculty of the college. Open stacks, pleasant areas to read or study, current periodicals, and a large microform collection contribute to the enjoyment of learning. Special collections in the library include the Seventh-day Adventist Heritage Collection: books and materials by SDA authors and about the Seventh-day Adventist Church; and the Dr. Vernon Thomas Memorial Civil War and Abraham Lincoln Collection: books, letters, manuscripts, newspapers, pamphlets, pictures, paintings, maps, and artifacts of this period in American History.

The 10,000 volume extension library at the Orlando Center is well-known throughout central Florida as an outstanding nursing material resource center.

The combined collection of these libraries contains approximately 200,000 items. Approximately 900 periodicals are currently received which include a large number of titles kept permanently on microform. McKee Library has an online computerized card catalog as well as a computerized magazine index. Various databases are available on CD-ROM. The library is a member of Ohio College Library Center and charter member of the Southeastern Library Network automated systems.

The facility has been in use since 1970, and provides seating for 400, including 300 individual study carrels.

MARINE BIOLOGICAL STATION

Southern College is affiliated with two marine biological stations to enrich and supplement its on-campus programs. One of these facilities, the Bahamian Field Station, is located on the island of San

Salvadore, Bahamas, and provides the opportunity for students to study tropical ecology, both terrestrial and marine. This station provides lodging, classroom, and laboratory facilities for studying coral reef, sandy beach, rocky shore, and mangrove swamp biomes.

The affiliation with Walla Walla College's Rosario Beach Marine Biological Station on Fidalgo Island in the Puget Sound provides students with opportunities to study some of these similar habitats in a temperate climate. This station in the state of Washington also furnishes facilities for summer classwork and research. Its close proximity to biomes ranging from sea bottom to Alpine tundra provides an excellent opportunity for instruction and investigation.

WSMC FM90.5

WSMC FM90.5 is a 100,000 watt, noncommercial, fine arts radio station licensed to Southern College.

WSMC provides training for students in the field of broadcasting. The station regularly hires between 15 and 20 students as on-air announcers, or production assistants. The station is an excellent way for the student to receive hands-on experience in the field of broadcasting.

WSMC represents the college to the Greater Chattanooga community, with a coverage area including a 100-mile radius of Chattanooga. Founded in 1961, it is the oldest noncommercial fine arts station in southeastern Tennessee. WSMC was the first radio station in a seven-state region to receive satellite capability. The station also exists as an outreach of the college--striving to enhance the quality of life in the community.

The station produces high-quality fine arts, informational, educational, and inspirational programs. WSMC is affiliated with National Public Radio, American Public Radio, the Associated Press, and the Adventist Radio Network.

WSMC's broadcast studios are located in Brock Hall. The facility includes a studio-quality production room, news room, music library, and on-air studios.

DEPARTMENTAL COURSES OF STUDY

COURSE NUMBERS

Each course number consists of three figures as follows:

HIST 354. Latin America (C-1), (W)

3 hours

The first numeral indicates class year status as follows:

- 0--Developmental (no credit)
- 1--freshman level (lower division)
- 2--sophomore level (lower division)
- 3--junior level (upper division)
- 4--senior level (upper division)

Within a given 100 sequence there is no significance in one course number being higher than another. For instance, 265 does not necessarily mean that the course is on a higher level than 235.

Course numbers separated by a hyphen are two-semester courses in which credit for the first course is a prerequisite to the second [e.g., ENGL 101-102. College Composition]. However, credit is given for the first semester when taken alone.

Course numbers that stand alone represent courses of one semester which are complete units. Course numbers separated by a comma [e.g., HIST 154, 155. American History and Institutions] represent complete units, either one of which is counted for graduation without reference to sequence.

Designation in brackets following course titles, [e.g., MATH 103. Survey of Mathematics (A-2)] indicates the General Education area and sub-area that the class fulfills. Classes designated with a "(W)" are writing classes for General Education credit.

Students may earn credit for a cross-listed course from only one department [e.g. HIST 356 and SOCI 356].

COGNATE COURSES

Required courses related to the major which are not a part of the major are called cognate courses [e.g., students majoring in Nursing are required to take Microbiology as a cognate course].

ALLIED HEALTH

Chair: Stephen A. Nyirady

Faculty: David Ekkens, William Hayes, Henry Kuhlman

Adjunct Faculty: John Lechler

Medical Technology: Lee Alan Forsythe, Rodney Holcomb,
R. A. Ramkissoon, Patricia Rogers

The Allied Health Professions are rapidly growing areas of specialization within the health care industry. Job openings are plentiful and pay scales are comparable to other professionals in health care. The department offers a B.S. degree in Medical Technology and an A.S. degree in Allied Health (Pre-Dental Hygiene, Pre-Occupational Therapy, Pre-Physical Therapy).

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

Adviser: Henry Kuhlman

The Bachelor of Science degree with a major in medical technology consists of three years of prescribed study at Southern College and a 12- to 13-month senior year in a hospital-based medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. Hospital programs affiliated with Southern College include Florida Hospital Medical Center and Hinsdale Hospital. Internship in other CAHEA - accredited programs requires prior college approval.

The Medical Technology degree qualifies a person to take a number of national certifying examinations, including those offered by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Certified laboratory professionals work in hospitals, clinics, physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern College is designed to meet the requirements of the college and of the Committee on Allied Health Education and Accreditation (CAHEA). Affiliated hospitals may have additional requirements. Students should consult the brochures or advisers of the specific hospitals for those requirements.

Occasionally pre-dental students, pre-medical students, and graduating seniors in biology or chemistry may wish to become certified Medical Technologists. This is possible if the student plans courses to fulfill the requirements of the college and the hospital program.

During the fall semester of the third year, students must apply for admission to an affiliated hospital-based medical technology program. Acceptance of the individual student to the senior year program is

determined by the hospital. To be eligible for admission, a student must complete all of the college course requirements prior to beginning the clinical year. The overall grade point average must be acceptable to the college for graduation. Most hospital programs do not accept students with less than a 2.75 cumulative average on a 4.0 system. Although hospital acceptances are granted during the junior year, they are conditional, pending satisfactory completion of the stated admission criteria.

Written information about each of the affiliated hospital-based medical technology programs is available through the college medical technology adviser. The student should be aware that acceptance criteria, pre-clinical course requirements, application procedures, tuition for the senior year, and program formats may vary at each affiliated hospital. Southern College charges a \$55 recording fee for the clinical year.

● **MAJOR** 2

MDTC 225. Introduction to Medical Technology **2 hours**

This course is designed to acquaint prospective medical technologists with the profession. The history and standards of medical technology and employment opportunities will be surveyed. Elementary clinical laboratory procedures will be taught and laboratory tours will be conducted.

● **COGNATES** 42

BIOL including 151-152, 315, 330, 340 17

*CHEM including 151-152, 311-314, 16

CPTR 120 or 131 3

MATH 120 3

BUAD 234 3

*These must be courses which could apply to a Chemistry major.

GENERAL EDUCATION REQUIREMENTS 35

AREA A 1. ENGL 101, 102 6

2. (See Cognates)

AREA B Religion 9

AREA C History, Political Science, and Economics 6

AREA D Language, Literature, and Fine Arts 6

AREA E (See Cognates)

AREA F Behavioral, Family, or Health Sciences 3

AREA G Activity Skills 5

- Grades of C- and better are required in the major and cognates. A minimum GPA of 2.25 must be earned on the major and cognates.

Twenty hours of upper division credit, including two writing (W) courses are required. One (W) course must be in a cognate area and one in a noncognate area.

ELECTIVES 13

Recommendations include:

BIOL 316, 415, 417, 418

CHEM 315, 321, 323

MATH 215

PHYS 211-212, 213-214

TOTAL PRE-CLINICAL CREDIT HOURS 92

HOSPITAL CLINICAL (SENIOR) YEAR Variable

Individual affiliated hospital programs should be consulted for their specific courses and credits. Approximately forty credit hours are given in the twelve to fifteen-month clinical programs. Courses taught in affiliate programs include:

Introduction to Medical Laboratory Science, Urinalysis, Hematology, Hemostasis, Immunology, Immunochemistry, Clinical Microbiology, Clinical Mycology, Clinical Parasitology, Clinical Biochemistry, Instrumentation, Research.

**Typical Sequence of Courses for
B.S. MEDICAL TECHNOLOGY**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
CHEM 151-152	General Chemistry	4	4	CHEM 311,312	*Organic Chemistry	3	3
ENGL 101-102	College Composition	3	3	CHEM 313,314	*Organic Chem Lab	1	1
HIST 174, 175	Survey of Civ	3	3	BIOL 151-152	*General Biology	4	4
MATH 120	College Algebra	3		BIOL 330	*Gen Microbiology		4
RELB 125	Teachings of Jesus		3	RELT 138	Adventist Heritage	3	
	Area G-3, Rec Skills	1		PSYC 124	Intro to Psychology		3
	Elective *1	1	3	MDTC 225	*Intro to Med Tech	2	
		15	16		Literature *3	3	
					Area G, Act Skills		1
						16	16
YEAR 3		Semester		YEAR 4			
		1st	2nd				
BIOL 315	*Parasitology		3		Clinical Year		
BUAD 234	*Principles of Mgmt		3				
CPTR 131	*Fund of Prog I		3				
BIOL 340	*Immunology		2				
	Biology *2		3				
	Area B, Religion *3		3				
	Area D,						
	Lang/Lit/F.Art		3				
	Electives *4	3	8				
		15	16				

*An asterisk in front of a subject indicates Med-Tech requirement.

*1 Pre-Meds recommended to take Calculus I

*2 Recommended Biology courses: (BIOL 316, 415, 417)

*3 This is a suggested place for taking an upper division course

*4 Recommended Physics courses: (PHYS 211-212, 213-214)

20 upper division credits, make-up of any admissions deficiencies, and 93 total hours must be completed prior to the clinical year.

ASSOCIATE OF SCIENCE IN ALLIED HEALTH

The Associate of Science degree in Allied Health Professions prepares the student for admission to professional programs at Loma Linda University or Andrews University. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students desirous of admission to other professional programs should check the bulletin of that school to ascertain the requirements.

Students who plan to graduate from Southern College with an Associate Degree in Allied Health must meet the A.S. degree general education requirements of SC as well as the entrance requirements of an accredited clinical program to which they will be applying.

Applications for transfer to the junior year of colleges offering Allied Health programs must be made early in the second semester of the final year at Southern College. The lowest acceptable grade for courses to be transferred is C. A minimum grade point average of 2.00 is required for the Associate of Science degree at Southern College, but grade point averages between 2.50 and 3.50 are considered minimal for entrance to the junior year of Allied Health programs. Some programs require the Allied Health Professions Admissions Test (AHPAT).

There are three major emphases in the Allied Health Professions degree: pre-Dental Hygiene, pre-Occupational Therapy, pre-Physical Therapy.

The department also offers curricula to meet requirements for entrance into the following Allied Health degree programs at Loma Linda University and most other university programs:

1. Occupational Therapy Assistant (Associate in Science Degree)
2. Physical Therapy Assistant (Associate in Science Degree)
3. Radiologic Technology (Associate in Science and Bachelor of Science Degrees)
4. Respiratory Therapy (Associate in Science and Bachelor of Science Degrees)
5. Speech-Language Pathology and Audiology (Bachelor of Science Degree)

For details on these programs and Southern College curricula for entrance into them write:

Chair, Allied Health Department
Southern College of SDA
P.O. Box 370
Collegedale, TN 37315-0370

PRE-DENTAL HYGIENE

Adviser: Stephen Nyirady

(Program meets admission requirements for Loma Linda University.)

- Area A ENGL 101-102; 2 years of high school math with a C grade or better and 22 math ACT score*
- Area B RELB or RELT, 6 hours
- Area C HIST, 3 hours
- Area D Foreign Lang/Lit/Fine Arts, 9 hours; SPCH or CPTR, 3 hours
- Area E BIOL 101-102, 225; CHEM 111-112, 113-114
- Area F PSYC 124; SOCI 125; 3 additional hrs. PSYC, SOCI, HIST, or ECON
- Area G PEAC, 2 hours; Music or Art, 1 hour
- Electives to make a total of 64 hours

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

Typical Sequence of Courses for A.S. PRE-DENTAL HYGIENE (Allied Health Professions)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	CHEM 111-112	Survey of Chemistry	3	3
BIOL 101-102	Anatomy & Physiology	3	3	CHEM 113-114	Survey of Chem Lab	1	1
MATH 103	Survey of Math*	0-3		BIOL 225	Basic Microbiology	4	
PSYC 124	Intro to Psychology		3		Area B, Religion	3	
SOCI 125	Intro to Sociology	3			Area D, For Lang/Lit/ Fine Arts	3	6
	Area B, Religion	3			Area G-1, Music/Art	1	
	Area D-4, Speech		3		Psychology, Sociology		
	Area G-3, PE Activity	1	1		History or Economics		3
	Area C-1, History		3		Electives	1	3
	Electives	3-0				16	16
		16	16				

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

NOTE: C is the lowest acceptable grade for a course. The Allied Health Professions Admission Test (AHPAT) is required.

PRE-OCCUPATIONAL THERAPY

Adviser: Stephen A. Nyirady

(Program meets admission requirements for Loma Linda University)

- Area A ENGL 101-102; 2 years high school math with C grade or better and 22 math ACT score*; MATH 215.
- Area B RELB or RELT, 6 hours; RELT 373
- Area C HIST, 3 hours
- Area D SPCH, 3 hours; Foreign Lang/Lit/Fine Arts, 3 hours
- Area E BIOL 101-102; CHEM 111, 113; PHYS 111
- Area F HLED 173**; PSYC 124, 128; SOCI 125, Cultural Anthropology***; additional PSYC or SOCI, 2-3 hours****
- Area G PEAC, 3 hours; Recommended Electives: ART 235, TECH 154

ALLIED HEALTH

A minimum of 80 hours work experience (volunteer or as an employee) in an occupational therapy department is required.

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

**High School health course acceptable.

***Not offered by Southern College--must be taken at a state university, correspondence course, or during clinical program at LLU.

****PSYC 315 does not apply toward this requirement.

Typical Sequence of Courses for A.S. PRE-OCCUPATIONAL THERAPY (Allied Health Professions)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CHEM 111	Survey of Chemistry	3	
BIOL 101-102	Anatomy & Physiology	3	3	CHEM 113	Survey of Chem Lab	1	
ART 235	Ceramics (elective)	3		HLED 173	Health & Life*	2	
SOCI 125	Intro to Sociology		3	PHYS 111	Intro to Physics		3
PSYC 124	Intro to Psychology	3		TECH 154	Woodworking (elective)	3	
RELT 138	Adventist Heritage		3	PSYC 128	Developmental Psy		3
	Area B, Religion	3		RELT 373	Christian Ethics		3
	Area D-4, Speech		3	MATH 215	Statistics		3
	Area G-3, Rec Skills	1	15		Area C, History	3	
		16	15		Area F-1, Beh Sci	3	
					Area G-3, Rec	1	1
					Area D, For Lang/Lit/ Fine Arts		3
						16	16

*May be waived if high school health course taken.

NOTE: C is the lowest acceptable grade.

PRE-PHYSICAL THERAPY

Adviser: David Ekkens

Program below meets Andrews University admission requirements.

- Area A ENGL 101-102; MATH 103 (or 22 Math ACT); MATH 215
- Area B RELB or RELT, 3 hours; RELT 255 or 225
- Area C HIST 154 or *HIST 174
- Area D SPCH 135; Fine Arts, 3 hours
- Area E BIOL 101-102, 225; CHEM 151-152; PHYS 211-212, 213-214
- Area F PSYC 124, 128; GEOG, PLSC, or ECON, 3 hours
- Area G PEAC, 2 hours; CPTR 120

Electives to make a minimum total of 64 hours

*HIST 154 required if not taken in high school.

BIOL 151-152 may be substituted for BIOL 101-102. Recommended electives are FDNT 125, ECON 213, ACCT 103.

A minimum required GPA for admission into the Andrews University clinical program is 3.00 for the required science prerequisite and 3.00 for total credit units completed. C is the lowest acceptable grade for science and cognate courses. The Nelson-Denny Reading test is also required. This test may be taken at SC. An additional requirement for admission is 80 hours of observation or work experience with a physical therapist. This 80 hours must include at least 16 hours in each of three of the following settings: general acute care hospital, home health agency, industrial practice, nursing home, private practice, rehabilitation center, school for the handicapped, specialized clinics.

Program below meets Loma Linda University admission requirements.

- Area A ENGL 101-102; MATH 120, 215
- Area B RELT 138, 225, 373
- Area C HIST 174 or 175
- Area D Fine Arts*, 3 hours; SPCH 135
- Area E BIOL 151-152, (or BIOL 101-102), 225; CHEM 151-152; PHYS 211-212, 213-214 (see note at end of section)
- Area F PSYC 124, 128; HLED 173**
- Area G PEAC, 3 hours; CPTR 120

For admission into the Loma Linda University clinical program, a student must have a 3.00 GPA for the required science prerequisites and 3.00 GPA for total credit units completed. Also required is a minimum of 80 hours work experience (volunteer or employee) in a physical therapy department, 20 of which are in a general, acute-care hospital.

*MUHL 115 or ART 218 may be selected.

**Not required if health course was taken in high school (C grade or better).

**Typical Sequences of Courses for
A.S. PRE-PHYSICAL THERAPY**

(Allied Health Professions)

Requirements for entrance to the junior year of a Physical Therapy course will depend on the college selected. Requirements for Andrews University and Loma Linda University are outlined here. Students who complete one of these programs will be awarded an Associate of Science degree by Southern College. Students planning to attend other colleges should contact them to obtain their requirements.

ANDREWS UNIVERSITY REQUIREMENTS

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 101-102	Anatomy & Physiology*	3	3	BIOL 225	Basic Microbiology	4	
PSYC 124	Intro to Psychology	3		RELT 255	Christian Beliefs		
PSYC 128	Developmental Psych		3		OR	3	
MATH 103	Survey of Math**	3		RELT 225	Last Day Events		
RELB	Religion	3		MATH 215	Statistics		3
SPCH 135	Intro to Pub Speaking		3	CPTR 120	Computer Based Syst	3	
	Area G-3, Rec Skills	1			Area D-3, Music or		
	Electives		1		Art Appreciation****		3
	Area C, History***		3		Area G-3, Rec Skills	1	
		16	16		Pol Sci, Geog, or Econ		3
					Electives	1	3
						16	16

Note: A physics sequence with laboratory is required for entrance into the program. This is offered at Andrews University immediately preceding their first quarter. PHYS 211-212 and 213-214, 8 semester hours at SC, will fulfill this requirement.

*BIOL 151-152, General Biology, may be substituted.

**Not required if the MATH ACT score is 22 or higher.

***American History required if not taken in high school.

****A two-semester sequence in a music organization may be substituted.

LOMA LINDA UNIVERSITY REQUIREMENTS

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 151-152	General Biology	4	4	BIOL 225	Basic Microbiology	4	
	or			HLED 173	Health & Life*		2
BIOL 101-102	Anatomy & Physiology	3	3	CPTR 120	Computer Based Syst	3	
PSYC 124	Introduction to Psych	3		MATH 215	Statistics		3
PSYC 128	Developmental Psych		3	HIST 175	Survey of Civ		3
MATH 120	College Algebra	3		RELT 373	Christian Ethics		3
RELT 138	Adventist Heritage	3			Area D, Fine Arts*		3
RELT 225	Last Day Events		3		Area G-3, Recreation	2	1
SPCH 135	Intro to Pub Speaking		3			16	16
		16	16				
		(15)	(15)				

*Not required if health course was taken in high school (C grade or better).

NOTE: A total of 66 semester hours is required for admission. Other entrance requirements are the Allied Health Professions Admissions Test and a minimum of 80 hours work experience (volunteer or as an employee) in a physical therapy department. C is the lowest acceptable grade for a course.

NOTE: A physics sequence with laboratory is required for entrance into the program. This is offered at LaSierra University immediately preceding first quarter. PHYS 211-212 and 213-214, 8 semester hours at SC, will fulfill this requirement. PHYS 111, 3 semester hours at SC, fulfills the first half of this requirement.

ART

Chair: Robert Garren

Adjunct Faculty: John Cline, John Petticord

Basic to the philosophy of the Department of Art is the provision for the quality of environment most conducive to spiritual, aesthetic, and technical growth. The instructors desire to help all students become aware of their options in the field of art and to prepare them systematically to meet the needs of their respective choices, whether they are oriented commercially or aesthetically.

Students majoring in Art must meet the specific requirements of the Art Department (below) and the General Education program (pages 47-49, 51-55). An Art major requires an intermediate foreign language.

PROGRAMS IN ART

Note: The Art Department has not accepted majors since the 1988-89 school year. Asterisks denote classes that will be phased out when art majors enrolled as of 1988-89 complete their graduation requirements.

Major: Thirty-six hours to include ART 104-105, 109, 110, 344, 345, 499, with not less than 14 hours upper division. Cognate requirement: JOUR 225. A foreign language at the intermediate level is required.

Typical Sequence of Courses for B.A. ART

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ART 104-105	Drawing I, II	2	2	ART 344	History of Art	3	
ART 109	Publications Design	3		JOUR 225	Intro to Photography	2	
ART 110	Design Principles		3		Area C-1, History	3	3
ENGL 101-102	College Composition	3	3		Area D-1, Inter For		
	Area B, Religion	3			Language	3	3
	Area D-1, Beg For Lang	3	3		Area D-2, Literature		
	Area G-2, Practical				OR	3	
	OR	1	1		Area D-4, Speech		
	Area G-3, Recreation				Area F-2, Family Sci		
	Area A-2, Math		0-3		OR		
	Minor or Elective	3-0			Area F-3, Hlth Sci		
		18	15		Area B-1, Religion		3
					Art Electives	3	3
					Minor or Elective		3
						17	15

YEAR 3		Semester		YEAR 4		Semester	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ART 345	Contemporary Art		3	ART 499	Senior Project	1	
	Area B-2, Religion	3			Area B, UD Religion		3
	Area C-2, Pol Sci/ Economics	3			Art Electives	6	3
	Area E, Nat Science	3	3		Minor or Electives	9	10
	Area F-1, Behav Sci	3				16	16
	Area G-3, Rec Skills		1				
	Minor or Electives	3	3				
	Art Electives		5				
		15	15				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including courses ART 104-105, 109, 110, 344, with not less than six hours in upper division courses.

STUDIO ART

ART 104-105. Beginning Drawing I, II (G-1) 2,2 hours

An introductory course in drawing, composition, and design. Emphasis on the basic art elements and their functions in composition using various media. (Fall, Spring)

ART 109. Publications Design (G-1) 3 hours

Emphasis on the design and layout of newspapers, magazines, brochures, and advertisements. Creative use of illustrations and typographical elements to enhance the communicative potential of the print media.

ART 110. Design Principles (G-1) 3 hours

Problems in two and three-dimensional art, dealing with line, shape, form, color, and texture. (Spring)

ART 221-222. Painting I, II 3,3 hours

Prerequisite: ART 104-105 or permission of instructor.

A course designed to give the student experience in using painting materials applied to compositional organizations. May be repeated for credit. (Fall, Spring)

ART 230. Introduction to Art Experiences 2 hours

A course designed to give students hands-on experience with a variety of art media and materials. Study will be given to how artists use media in their expression of design and composition. (Spring)

ART 235. Ceramics (G-1) 3 hours

Fundamentals of the preparation and use of clay. Methods of fabrication from hand building to wheel-thrown wares, chemistry and application of glazes, and stacking and firing of kilns. May be repeated for credit. A \$20 fee is applied toward necessary supplies. (Fall)

ART 313-314. Drawing III, IV*3,3 hours**

Prerequisite: ART 104-105 or permission of instructor.

A course designed to give the student increased experience in the application of drawing media to the production of art. This course may be repeated for credit. (Fall, Spring)

ART 295/495. Directed Study (W)**1-3 hours**

For students electing to take ART 295, permission of the teacher must be obtained. ART 495 is for majors and minors only.

The course is designed for students who wish directed study or for a group of students who wish a special course not taught under the regular class offering. Students taking the class as directed study may choose from art history, ceramics, design, drawing, painting, printmaking, and sculpture. (Students must have had maximum classes offered in area.) This course also includes credit offered by the Art Department on directed study tours. May be repeated for credit up to four times. Writing emphasis for ART 495 only.

ART 499. Senior Project*1 hour**

Major projects in area of interest for seniors and preparation of permanent portfolio of college art work. (Spring)

ART HISTORY**ART 218/318. Art Appreciation (D-3) (W)****3 hours**

Lecture and travel seminar. One class is offered in the fall semester, with two hours per week lecture, and the week of Thanksgiving spent in and New York City visiting major art museums. When offered in the first summer session, there will be one week of two-hour lectures and two weeks of travel and museum visits. There is an additional charge for travel. Students will be required to write a summary paper. Students taking the class for upper-division credit will be required to write a research paper.

ART 344. History of Art (D-3) (W)**3 hours**

A study of the arts of western civilization from antiquity to the mid-1800's with an emphasis on pivotal figures in art history. (Fall)

ART 345. Contemporary Art (D-3) (W)**3 hours**

Nineteenth- and twentieth-century developments in European and American arts. (Spring)

(D-3), (G-1), (W) See pages 51-55 for explanation of General Education requirements.

BEHAVIORAL SCIENCE

Chair: Ed Lamb

Faculty: Larry Williams, Terrie Ruff

Adjunct Faculty: Sherri Craig, Ellen Gilbert, Judie Port

The Behavioral Science faculty fully support the educational philosophy and objectives of Southern College. More specifically, this faculty embraces the following beliefs:

- (1) God is not only the Creator and Sustainer of all life, but also the ultimate Source of all knowledge.
- (2) Man is created in the image of God, and possesses harmonious physical, mental, spiritual, and social attributes.
- (3) A loving God seeks to restore His image in humanity, thus preparing them for personal fellowship with Himself.

We understand a redemptive education must focus on the growth of the whole person. The Behavioral Science faculty commits itself, therefore, to achieving the following objectives:

Spiritual

Behavioral Sciences majors will acquire an understanding of the basic beliefs and values of Christianity as presented by the Seventh-day Adventist Church. We, as their teachers, will provide class devotionals, Christian-service applications, and the encouragement for them to commit themselves to such ideals.

Intellectual

Those studying Behavioral Science at this college will perceive themselves as Christian scholars beginning a lifelong pursuit of knowledge. We have designed course-related activities and investigations to aid them in achieving intellectual and career goals, and in acquiring the necessary tools for future learning. The Behavioral Science curriculum is structured so as to encourage critical thinking, perceptive discussion, intellectual curiosity, and cultural awareness.

Social

Behavioral Science students are expected to develop positive interpersonal skills, communication techniques, and decision-making approaches. The teachers in this program strongly emphasize the attitudes of acceptance, caring, patience, and service.

Physical

Students in Behavioral Science are encouraged to develop a holistic view of mankind in appreciation for the interactive nature of our physical, mental, social, and spiritual being. They are expected to establish balanced programs of exercise, rest, diet, study, work, and recreation. The faculty promotes such positive values and practices through example and instruction.

Students wishing to prepare for graduate study in community and/or family counseling, law, personnel work, and sociology of the family should consider a Behavioral Science major with a Family Studies emphasis. The Bachelor of Science in Social Work (BSW) is offered for those students seeking preparation for entry-level generalists baccalaureate practice positions. Registered nurses will find a major in some area of Behavioral Science an excellent foundation for public health and psychiatric work. To achieve a complete preparation in these fields, however, the student is encouraged to consider further training at the graduate level.

PROGRAMS IN BEHAVIORAL SCIENCE

Major (B.S., Family Studies Emphasis): Forty-five hours, including PSYC 124, 128, 233, 315; SOCI 125, 201, 223, 424, 495, 349, 365; SOCW 211, 212, 497. Cognate requirements: MATH 215 and three hours in Biology. Remaining course work will normally be chosen from the following courses: PSYC 377; SOCW 375.

Typical Sequence of Courses for B.S. BEHAVIORAL SCIENCE (Family Studies Emphasis)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	SOCI 201	Parenting	3	
SOCI 125	Intro to Sociology	3		ECON 213	Survey of Economics	3	
PSYC 124	Intro to Psychology		3	SOCW 211	Intro to Soc Work	3	
PSYC 128	Develop Psychology		3	SOCW 212	Social Welfare Insts		3
	Area G, Act Skills	2	1	SOCI 223	Marriage & Family		2
	Area B, Religion	3		SOCI 233	Human Sexuality		3
	Area E-1, Biology		3		Area D-4 Speech	2	
	Area A-2, Math		0-3		Area B, Religion	3	
	Minor or Elective	4	3-0		Area C-1, History	3	3
		15	16		Area D, Lang/Lit		
					Fine Arts		6
						17	17

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
MATH 215	Statistics	3		SOCW 497	Research Methods	3	
PSYC 315	Abnormal Psych		3	SOCI 349	Aging & Society	3	
SOCI 365	Family Relations		3	SOCI 424	Contemp Social Prob		3
SOCI 495	Directed Study		1		Area B, UD Religion	3	
	Area B, Religion	3			Area G, Act Skills	2	
	Area D, Lang/Lit				Minor or Electives	4	5
	Fine Arts	4			PSYC & SOCW Elect		6
	Area E, Chem/Phys/					15	14
	Earth Science	3					
	Area G-3, Recreation	1					
	Minor or Electives	5	4				
		15	15				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

A student contemplating graduate study should take as many courses as possible in the area of his/her emphasis.

Major (B.S.W., Social Work): Forty-five hours including SOCW 211, 212, 313, 314, 315, 424, 434, 435, 436, 497; PSYC 124, 128; SOCI 125. Cognate requirements: PLSC 254 or ECON 213; MATH 215; RELT 373; any human biology.

Typical Sequence of Courses for B.S.W. SOCIAL WORK

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	SOCW 211	Intro to Social Work	3	
PSYC 124	Intro to Psychology		3	SOCW 212	Social Welfare Insts		3
SOCI 125	Intro to Sociology	3		ECON 213	Survey of Economics	3	
PSYC 128	Develop Psychology	3			Area G, Skills		2
	Area D-4, Speech	3			Area E-1, Biology		3
	Area B, Religion	3			Area B, Religion	3	
	Area A-2, Math		0-3		Area C-1, History	3	3
	Area G, Skills		2		Area D, Lang/Lit/		
	Electives		8-5		Fine Arts		3
		15	16		Electives	3	2
						15	16

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
SOCW 313	HBSE	3		SOCW 424	Contemp Soc Problems	3	
SOCW 314	Social Work Meth I	3		SOCW 434	Soc Welf Issues & Pol	3	
SOCW 315	Social Work Meth II	3		SOCW 435-436	Practicum I, II	4	4
MATH 215	Statistics	3		SOCW	Elective	1	
SOCW 497	Research Methods	3			Area G-3, Recreation	1	
	Area B, Religion	3			Area G, Skills		1
	Area D, Lang/Lit				Area B, UD Religion	3	
	Fine Arts		3		Elective	1	10
	Area E, Nat Science	3				16	15
	Elective, Social Work		3				
	Elective		4				
		15	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor--Behavioral Science. Eighteen hours selected from any Behavioral Science areas and including PSYC 124, SOCW 211, and SOCI 125, with a minimum of six hours of upper division Behavioral Science classes.

Minor--Sociology. Eighteen hours including SOCI 125, 365, and 424.

SOCIAL WORK

SOCW 211. Introduction to Social Work (F-1) 3 hours

An introduction to the profession of social work, its historical roots, its values, and its fields of practice.

SOCW 212. Social Welfare as an Institution (F-1) 3 hours

Social welfare systems are viewed from both historical and philosophical perspectives. The role of the Seventh-day Adventist Church in meeting human need is also examined. Not open to students who have taken SOCW 221.

SOCW 213. Interviewing Skills 1 hour

Focuses on the development of interviewing and communication skills. Course is experientially based.

SOCW 233. Human Sexuality (F-1 or F-2) 3 hours

See SOCI 233 for course description.

SOCW 313. Human Behavior and the Social Environment 3 hours

Prerequisites: BIOL 101; SOCI 125; PSYC 124, 128; SOCW 212 or permission of instructor.

A study of the interaction between human behavior and the social environment. Relevant concepts from the behavioral sciences will be reviewed to provide students with a holistic view of human behavior. Includes such topics as systems theory, roles, reference groups, and social stratification. To be taken prior to or concurrently with SOCW 314.

SOCW 314. Social Work Methods I (W) 3 hours

Prerequisite: SOCW 212 or permission of instructor.

Provides students with theoretical framework for generalists social work practice. Topics include the establishment of relationship, assessment, contracts, intervention, utilization of resources, social work values and ethics. Work with individuals and families is emphasized in the first semester of a two-semester sequence.

SOCW 315. Social Work Methods II (W) 3 hours

Prerequisite: SOCW 314 or permission of instructor.

A continuation of SOCW 314. The primary focus is on working with small groups and the community. Public policy development and implementation are also studied.

SOCW 349. Aging and Society (W) 3 hours

See SOCI 349 for course description.

SOCW 374. Criminology 3 hours

See SOCI 374 for course description.

SOCW 375. Introduction to Family Intervention (F-1) 3 hours

An introduction to the various theoretical orientations of family intervention. The family is viewed as a unit, with focus on programs and crisis techniques designed to maintain and re-establish family equilibrium.

SOCW 424. Contemporary Social Problems (F-1) 3 hours

See SOCI 424 for course description.

SOCW 434. Social Welfare Issues and Policies 3 hours

A study of contemporary issues and policies that influence the delivery of social services. Not open to students who have taken SOCW 222.

SOCW 435. Social Work Practicum I 4 hours

Prerequisite: SOCW 314.

This course provides opportunity for students to apply practice theory to develop skills for generalists social work practice. Through participation in the social service delivery system, the student becomes familiar with agency structures, functions, and programs. A minimum of 200 hours will be spent working in an agency setting for each four hours of course work.

SOCW 436. Social Work Practicum II 4 hours

This course builds on the experiences of the first semester practicum and progresses to more difficult and varied tasks.

SOCW 465. Topics in Social Work (F-1) 1-3 hours

Study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, sex roles, income maintenance, social work ethics, etc. This course can be repeated once for credit.

SOCW 295/495. Directed Study 1-3 hours

Prerequisite: SOCW 221 or permission of the instructor.

A study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, income maintenance, values and ethics of social work practice, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Fall)

SOCW 296/496. Study Tour (F-1) 1-3 hours

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected culture is taken every other summer or as needed. An additional fee is required to cover travel expenses.

SOCW 497. Research Methods (W) 3 hours

Prerequisite: MATH 215.

An introduction to common research design and methodology. Descriptive and relational designs are examined. A semester research proposal and completed project is expected of each student. (Fall)

SOCIOLOGY

SOCI 125. Introduction to Sociology (F-1) 3 hours

An objective approach to the analysis and understanding of the social world. Consideration is given to the dynamic nature of American society and social institutions. Emphasis is placed on the study of social groups including the family, its history and current place in society. (Fall, Spring, Summer)

SOCI 201. Parenting (F-2) 3 hours

A study of the family system in preparation for parenthood and the dynamics of parent-child interaction. Attention is given to family planning, the childbirth experience, child development, techniques for developing close relationships and communication between parent and child, understanding and relating to children's individuality, common child rearing problems, and methods of modifying behavior.

SOCI 223. Marriage and the Family (F-2) 2 hours

A course in the ethics of human relationships, including the place of the family in society and the Christ-centered approach to marital and familial conflicts. (Fall, Spring)

SOCI 224. Social Psychology (F-1) 3 hours

See PSYC 224 for course description.

SOCI 233. Human Sexuality (F-1 or 2) 3 hours

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting.

SOCI 349. Aging and Society (F-1) (W) 3 hours

The course emphasizes the reciprocal impact of societal attitudes on the process of aging and the increasing influence of "mature citizens" in contemporary society. Historical, demographic, and future trends are explored. A balance between the theoretical and the applied is sought. (Spring)

SOCI 356. Natives and Strangers (F-1) (W) 3 hours

See HIST 356 for course description.

SOCI 365. Family Relations (F-2) 3 hours

A sociological analysis of family structures and functions. Attention will be given to courtship, family organization and interaction, family disorganization and reorganization, and the post-parental family. Emphasis will be given to findings of recent family studies. (Spring)

SOCI 374. Criminology (F-1) 3 hours

This course emphasizes the scientific study of crime as a social phenomenon, of criminals, and of penal treatment. The relationship of law and crime to other trends in the social order. Research in prevention and treatment of crime. (Fall, odd years)

SOCI 424. Contemporary Social Problems (F-1) 3 hours

Attention is given to the major forces shaping cultural and subcultural changes today. Changes are particularly viewed as to their effectiveness in bringing about group and mass adjustment. (Spring)

SOCI 295/495. Directed Study (F-1) 1-3 hours

Prerequisite: SOCI 125 or permission of the instructor.

Study of special topics pertinent to the area of sociology. Content will vary among such topics as the sociology of women, social conflict and change, Black America, the sociology of education, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Spring)

SOCI 296/496. Study Tour (F-1) 1-3 hours

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected culture is taken every other summer or as needed. An additional fee is required to cover travel expenses.

(F-1), (F-2), (W) See pages 51-55 for explanation of General Education requirements.

BIOLOGY

Chair: Stephen A. Nyirady

Faculty: Joyce Azevedo, David Ekkens, William Hayes,
Duane Houck

Adjunct Faculty: Edgar Grundset, Laura Nyirady

The study of Biology constitutes one of the most exciting and important fields of scientific investigation, since it provides a better understanding of ourselves and the living things around us. Even the casual observer of Biology who pauses long enough to take a course may derive a lifetime of pleasure and fulfillment from a hobby such as bird watching, shell collecting, or wildflower photography.

More importantly, a major in Biology is an excellent starting point for numerous careers which are both rewarding and challenging. With a B.S. degree in Biology, one may pursue graduate study leading to research in the basic sciences (anatomy, physiology, ecology, microbiology, cytology, etc.), teaching at the college or graduate level, or employment in industry or government. The B.A. degree is the degree of choice in preparation for high-school teaching, medicine, dentistry, optometry, careers in wildlife, forestry or zoo management, health education, public health, biostatistics, epidemiology, and environmental health, to name a few.

DEGREES IN BIOLOGY

Core Courses:

BIOL 151-152	General Biology
BIOL 316	Genetics
BIOL 412	Cell and Molecular Biology
BIOL 424	Issues in Natural Science and Religion
BIOL 485	Biology Seminar

Areas:

Botany:

BIOL 408	Flowering Plants and Ferns
BIOL 409	Smoky Mountain Flora
BIOL 419	Plant Physiology

Ecology:

BIOL 226	Environmental Conservation
BIOL 317	Ecology
	Marine Biology Courses

Zoology Field Courses:

BIOL 312	Vertebrate Natural History
BIOL 314	Ornithology
BIOL 319	Herpetology
BIOL 320	Entomology
BIOL 411	Mammalogy

Microbiology:

BIOL 315	Parasitology
BIOL 330	General Microbiology
BIOL 340	Immunology

Basic Zoology:

BIOL 313	Embryology
BIOL 415	Comparative Anatomy
BIOL 417	Animal Histology
BIOL 418	Animal Physiology

Major (B.A.): Thirty-one hours including Biology core of 19 hours, plus one course from each of four areas. Cognate requirements: CHEM 151-152 General Chemistry, CHEM 311-314 Organic Chemistry, and three hours of computer courses; PHYS 211-212 and 213-214, General Physics and General Physics Laboratory, are highly desirable. A minor in Chemistry is recommended. All seniors are required to take the Educational Testing Service Major Field Achievement Test in Biology before graduating.

**Typical Sequence of Courses for
B.A. BIOLOGY**

(Chemistry Minor Recommended)

YEAR 1

		Semester	
		1st	2nd
ENGL 101-102	College Composition	3	3
BIOL 151-152	General Biology	4	4
MATH 120	College Algebra	3	
RELB 125	Teachings of Jesus	3	
RELT 138	Adventist Heritage		3
	Area F-2,3		
	Fam/Hlth Sci	2	
	Area G, Skills	1	1
	Electives		5
		16	16

YEAR 2

		Semester	
		1st	2nd
CHEM 151-152	General Chemistry	4	4
BIOL 316	Genetics		4
	Area G-2, Comp Sci	3	
	Area G-3, Rec Skills		1
	Area D, Lit/Fine Arts/ Speech	3	
	Area B, Religion		3
	Biology Electives	3	3/4
	Electives	2	
		15	15
			(16)

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
CHEM 311-312	Organic Chemistry	3	3	BIOL 424	Issues of Nat Sci & Religion	3	
CHEM 313-314	Organic Chem Lab	1	1				
PHYS 211-212	General Physics	3	3	BIOL 485	Biology Seminar	1	
PHYS 213-214	Gen Physics Lab	1	1	CHEM 323	Biochemistry		4
BIOL 412	Cell & Molecular Bio	3			Biology Elective	3	
	Biology Elective		3		Area B, UD Religion		3
	Area D-1, For Lang	3	3		Area C-1, History	3	3
	Electives	<u>1</u>	<u>1</u>		Area C-2, Political Science/Econ	3	
		15	15		Area F-1, Beh Sci		3
					Electives	<u>3</u>	<u>3</u>
						16	16

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially the requirements for make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including Biology core of 19 hours, plus one course from each of the five areas. Cognate requirements: CHEM 151-152 General Chemistry, CHEM 311-314 Organic Chemistry; MATH 120 College Algebra, MATH 215 Statistics; and three hours of computer courses. BIOL 397 Introduction to Research, BIOL 497 Research in Biology, PHYS 211-212 and 213-214 General Physics and General Physics Laboratory, are highly recommended. All seniors are required to take the Educational Testing Service Major Field Achievement Test in Biology before graduating.

Typical Sequence of Courses for B.S. BIOLOGY

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 151-152	General Biology	4	4	CHEM 151-152	General Chemistry	4	4
ENGL 101-102	College Composition	3	3	HIST 154,155	American History		
MATH 120	College Algebra	3			OR	3	3
RELB 125	Teachings of Jesus	3		HIST 174,175	Survey of Civ		
	Area F-1, Beh Sci		3	BIOL 316	Genetics		4
	Area F-2,3 Fam/ Hlth Science	2		MATH 215	Statistics	3	
	Area G-3, Rec Skills		1		Biology Electives	3	3
	Area D, Lang/Lit/ Fine Arts		3		Area G-1, Creat Skls	2	
	Electives	<u>1</u>	<u>1</u>		Area B, Religion	<u>3</u>	<u>3</u>
		15	15			15	17

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
CHEM 311-312	Organic Chemistry	3	3	BIOL 485	Biology Seminar	1	
CHEM 313-314	Organic Chem Lab	1	1	BIOL 424	Issues of Nat Sci & Religion	3	
PHYS 211-212	General Physics	3	3		Biology Electives	6	6/7
PHYS 213-214	General Phys Lab	1	1		Area D-2, Lang/Lit		
BIOL 412	Cell & Molecular Bio	3			Fine Arts		3
	Area D, Lang/Lit/ Fine Arts		3		Area C-2, Pol Sci/Econ		3
	Biology Electives		6		Area G-2, Comp Sci	3	
	Area B, Religion	<u>3</u>	<u>3</u>		Area B, UD Religion	3	
		14	17		Electives	<u>3</u>	<u>3</u>
						16	15
							(16)

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements for make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

BIOLOGY

Minor: Eighteen hours including BIOL 151-152 General Biology. A course in physiology is strongly recommended. A minimum of six hours must be in upper division.

Certification to Teach: Secondary certification in Biology requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 149. Also required are specific biology classes as indicated in the following sequence of courses.

Typical Sequence of Courses B.A. Biology--Teacher Certification 7-12

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 151-152	General Biology	4	4	BIOL 226	Environ Conservation		3
MATH 114	Precalculus	3		BIOL 316	Genetics		4
RELB 125	Teachings of Jesus	3		BIOL 403	Flower Plants & Ferns	3	
RELT 138	Adventist Heritage		3	EDUC 217	Psych Found of Educ	2	
EDUC 135	Intro to Education	3		EDUC 240	Except Child & Youth		2
	Area F-1, Behav Sci		3	RELT 225	Christian Beliefs		3
	Area F-2,3 Fam/Hlth Sci		2		Area D, Lit/F Arts/Spch	3	
	Area G, Skills		1		Area G-1 or 3, Skills	1	
		16	16		Area G-2, Comp Sci	3	
					Area G-3, Rec Skills		1
						16	17
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BIOL	Zoology Field Course	3		BIOL 412	Cell & Molecular Bio	3	
BIOL 330	General Microbiology		4	BIOL 424	Issues in Nat Sci & Rel	3	
BIOL 418-419	Plant or Animal Physiol		3	BIOL 485	Biology Seminar		1
CHEM 311-312	Organic Chemistry	3	3	CHEM 325	Biochemistry		4
CHEM 313-314	Organic Chem Lab	1	1	EDUC 421	Behavior Management	2	
EDUC 250	Technology in Ed		2	EDUC 427	Current Issues in Ed	2	
EDUC 356	Tests and Measure	2		EDUC 432	Reading in Content		2
ERSC 105-106	Earth Science	4		EDUC 438	Curric & Content Mthds	2	
	Area B, UD Religion	3		EDUC 462	Organization & Ldrshp		1
	Area D, Lit/F Arts/			MATH 215	Statistics		3
	Speech		3		Area C-1, History	3	3
		16	16		Area C-2, Pol Sci/Econ	3	
						16	16
<u>YEAR 5</u>							
EDUC 468	Enhanced St. Tch 7-12	8					

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements for make-up of admissions deficiencies, three writing (W) courses, and 40 upper division credits.

NON-MAJOR, NON-MINOR COURSES

BIOL 101-102. Anatomy and Physiology (E-1) 3,3 hours

A study of the fundamentals of human anatomy and physiology. The first semester covers basic cytology, histology, the musculoskeletal, integumentary, nervous, and endocrine systems. The remainder of the body systems are studied the second semester. Two lectures and one three-hour laboratory period each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

BIOL 103. Principles of Biology (E-1) 3 hours

This is a basic general education biology course designed to give the student a modern treatment of the fundamental processes and principles of plant and animal life. Three lectures each week. Does not apply on a major or minor in Biology. (Fall, Spring)

BIOL 104. Principles of Biology Lab (E-1) 1 hour

Prerequisites: Previous or concurrent enrollment in BIOL 103.

Laboratory exercises designed to illustrate the principles learned in BIOL 103. Three hours of laboratory each week. Does not apply on a major or minor in Biology. (Fall, Spring)

BIOL 225. Basic Microbiology (E-1) 4 hours

A study of the principles of microbiology, disinfection, sterilization, elementary immunology, and microorganisms emphasizing their relationship to health and disease. Three lectures and two one and one-half hour laboratory periods each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

CORE COURSES**BIOL 151-152. General Biology (E-1) 4,4 hours**

This is a rigorous introductory course in Biology primarily for Biology majors, minors, and pre-professional students. The course is designed to give the student a solid foundation in the fundamental processes of plant and animal life. It is prerequisite to most all other Biology major courses. Three lectures and one three-hour laboratory period each week. (Fall, Spring)

BIOL 316. Genetics 4 hours

Prerequisite: BIOL 225 or 151, or consent of instructor.

A study of heredity as related to man, domestic plants and animals and an investigation of gene structure and function. Three lectures and one three-hour laboratory period each week. (Spring)

BIOL 412. Cell and Molecular Biology 3 hours

Prerequisites: BIOL 151-152; BIOL 316.

This course, designed for advanced Biology and Chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 151-152, the student is exposed to methods of cellular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Two lectures and one three-hour laboratory period each week. (Fall)

BIOL 424. Issues of Natural Science and Religion (E-1) (W) 3 hours

Prerequisite: Senior standing.

A study of the philosophical basis of modern natural science as it relates to current issues in origins, biotechnology, bioethics, and environmental responsibility. Special attention is given to Christian perspectives of the issues discussed. Credit can be applied toward either Biology or Religion. Three lectures each week. (Fall)

BIOL 485. Biology Seminar (W)

1 hour

Prerequisite: Biology major or minor with senior standing.

Reports are made on some specific problem in the field of Biology and on current literature in the field. To be taken in the senior year or with approval of Department Chair. (Fall, Spring)

BOTANY

BIOL 408. Flowering Plants and Ferns

3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

This field study of trees, flowering plants and ferns emphasizes species identification with the aid of botanical keys, recognition of plant families and noting habitats where various species occur. Other taxonomic methods will be introduced. Students will prepare a collection of herbarium specimens. Two lectures and one field trip or three-hour laboratory period each week. (Fall--odd years; Summer--even years)

BIOL 409. Smoky Mountain Flora

3 hours

Prerequisite: BIOL 152 or consent of instructor.

A field study of the wildflowers, shrubs and trees in the Great Smoky Mountain National Park, which contains the world's finest examples of temperate deciduous forest. Plants are identified by means of botanical keys, and observation lists are kept. Special attention is given to the different forest types and their associated plants. Involves a 10-day to three-week camping study experience. Field trips daily. (Summer, odd years)

BIOL 419. Plant Physiology

3 hours

Prerequisite: BIOL 151-152 and CHEM 151-152 or consent of instructor.

A study of the functions of seed plants. Topics covered include water relations, mineral nutrition, photosynthesis, transpiration, translocation, respiration, and growth. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

ECOLOGY

BIOL 226. Environmental Conservation (E-1)

3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

This very relevant course introduces the student to the very complex interlocking environmental problems facing us today. Beginning with basic ecological principles, the course goes on to examine population dynamics, energy utilization, resource consumption, the various forms of pollution, and conservation methods to preserve our natural resources, natural areas, and native species. On field trips we will evaluate how efficiently our natural resources are being monitored, utilized, and conserved. Two lectures and one field trip or three-hour laboratory period each week. (Spring)

BIOL 250. Introduction to Tropical Marine Biology 3 hours

A study of the major invertebrates and fish of the tropical coral reef and seashores. Emphasis is placed on the life habits of the organisms and their ecological niches. Habitats studied are coral reefs, rocky shores, sandy beaches, thalassia beds and mangrove swamps. Involves two weeks of on-campus classwork and 7-10 day field laboratory experience in the Bahamas. There is an additional charge for the Bahamas trip. (Summers)

BIOL 317. Ecology 3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

Ecology is a study of the interrelationships of plants, animals and their environment. This course will examine these interactions in the context of energy flow, nutrient cycles, limiting factors, succession and population dynamics. Field work will introduce various ecological sampling techniques and the student will participate in ecological analysis of various local communities as well as extended field trips. Two lectures and one field trip or three-hour laboratory period each week. (Fall)

ZOOLOGY FIELD COURSES**BIOL 312. Vertebrate Natural History 3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

Natural history of the vertebrate classes including ecology, physiology, behavior, classification and identification, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended weekend field trip will be required as part of laboratory credit. (Fall, odd years)

BIOL 314. Ornithology (E-1) 3 hours

A systematic study of bird life with special emphasis on external features, taxonomy, nesting and feeding habits, flight and migratory patterns. Two lectures and one laboratory period each week. An extended field trip, which applies toward laboratory credit, is planned during spring vacation. There is an additional charge for the trip. (Spring)

BIOL 319. Herpetology 3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

Natural history, ecology, physiology, behavior, classification and identification of amphibians and reptiles, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended field trip will be required as part of laboratory credit. (Fall, even years)

BIOL 320. Entomology 3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

A systematic study of the insects of the world considering anatomy, physiology, behavior and relation to humans. In the laboratory, emphasis will be placed on identifying local insects and a representative collection will be turned in. Short field trips are planned as part of the laboratory work. Two lectures and one three-hour laboratory period each week. (Fall, odd years)

BIOL 411. Mammalogy

3 hours

Prerequisites: BIOL 151-152 or consent of instructor.

A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. A small collection will be required in the laboratory. Two lectures and one three-hour laboratory each week. (Fall, even years)

MICROBIOLOGY

BIOL 315. Parasitology (W)

3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

A general survey of the more important parasites of man and domestic animals. Two lectures and one three-hour laboratory period each week. (Spring, even years)

BIOL 330. General Microbiology

4 hours

Prerequisite: BIOL 151-152 or equivalent.

A general study of bacteria, yeasts, molds and viruses, considering their morphology, physiology, genetics and methods of control. Study will be given to immunology topics: antigen-antibody properties, host-antigen interactions, humoral and cellular immune systems. The importance of microorganisms in environmental and applied fields will be considered. Three lectures and one three-hour laboratory period each week. (Spring)

BIOL 340. Immunology

2 hours

Prerequisite: BIOL 225 or 330.

A study of the basic aspects of the human immune system including topics such as antigen and antibody structure and reactions, humoral and cell mediated immunity, hypersensitivity, immune disease and transplantation immunology. Two lectures each week. (Spring)

BASIC ZOOLOGY

BIOL 313. Embryology

3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

An introduction to the development of the vertebrate animal with emphasis on the development of the chick. Two lectures and one three-hour laboratory period each week. (Fall)

BIOL 415. Comparative Anatomy

3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

A comparison of the anatomy of the various organ systems of vertebrates. The dogfish shark, mud puppy, cat, and/or fetal pig are used for laboratory study. Two lectures and one three-hour laboratory period each week. (Spring)

BIOL 417. Animal Histology

3 hours

Prerequisite: BIOL 151-152 or consent of instructor.

A descriptive study of normal tissues, primarily those of man. The microscopic identification and characteristics of stained sections are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

BIOL 418. Animal Physiology**3 hours**

Prerequisite: BIOL 102, 151-152, or equivalent and CHEM 151-152 or equivalent.

Functional processes used by animals in adjusting to their external environment and controlling their internal environment. Laboratories involve analysis of functions of major organ systems. Two lectures and one three-hour laboratory period each week. (Spring, even years)

SPECIAL COURSES**BIOL 365. Topics in Biology****1-3 hours**

Formal coursework designed to meet the needs or interests of students in specialty areas of Biology not covered in regular courses. May be repeated in different specialized areas.

BIOL 295/495. Directed Study**1-3 hours**

Prerequisite: BIOL 151-152 or equivalent.

BIOL 495 open to Biology majors or minors only.

Designed for the individual student or group of students who wish to do independent study in an area of biology not listed in the regular offerings. Content and method of study must be arranged for prior to registration. This course may be repeated for credit. (Fall, Spring, Summer--on demand)

BIOL 397. Introduction to Biological Research (W)**1 hour**

Prerequisite: BIOL 151-152.

An introduction to the principles of scientific research, including the function of the scientific method, literature searches, research techniques, writing of grant proposals, and how to publish results. (Fall)

BIOL 497. Research in Biology (W)**1-2 hours**

Prerequisite: BIOL 397 or permission of instructor.

Individual research under the direction of members of the staff. Problems will be selected according to the interest and experience of the student. Prior to registration, students are urged to contact all biology staff members with respect to the choice of available research problems. This course should be taken not later than the first semester of the senior year. (Fall, Spring, Summer--on demand)

EDUCATION**EDUC 438. Curriculum and Content Methods/Biology****2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction; planning, testing, and evaluating student performance; and the survey and evaluation of textbooks.

ROSARIO BEACH MARINE BIOLOGICAL FIELD STATION

The Rosario Beach Marine Station is a teaching and research facility operated by Walla Walla College in affiliation with Southern College and other Adventist colleges. Located seven miles south of Anacortes, Washington, the station occupies 40 acres of beach and timberland. In addition to some of the biology courses listed in this catalog, the following are among those taught during the summer at Rosario Beach:

BIOL 200. Introduction to Marine Biology **3 hours**

An overview course designed to introduce general education students to the biology and ecology of the marine environment. Course not applicable to Biology majors.

BIOL 460. Marine Ecology **3 hours**

Prerequisite: BIOL 151-152.

Study of interspecific, intraspecific, and community relationships demonstrated by marine organisms.

BIOL 463. Marine Botany **3 hours**

Prerequisite: BIOL 151-152.

Systematic study of plants found in Puget Sound, with a survey of marine plants from other areas.

BIOL 468. Comparative Physiology **3 hours**

Prerequisite: BIOL 151-152, BIOL 412.

Comparative study of the physiology and life processes of animals with emphasis on invertebrates.

BIOL 475. Marine Invertebrates **3 hours**

Prerequisite: BIOL 151-152.

A description of selected groups of marine invertebrates. The course will involve extensive collection, classification, and study of the marine invertebrates of the Puget Sound.

BIOL 516. Behavior of Marine Organisms **3 hours**

Prerequisites: BIOL 151-512 and Animal Behavior or Introduction to Psychology.

A study of intra- and interspecific behaviors of marine animals and their behavioral responses to the physical environment. The course involves laboratory experiences, field observation, and a research project.

BUSINESS AND OFFICE ADMINISTRATION

Chair: Wayne VandeVere

Faculty: Herbert Coolidge, Joyce Cotham, Richard Erickson,
David Haley, Cliff Olson, Cecil Rolfe, Dan Rozell,
Vinita Sauder, Peg Smith

Adjunct Faculty: Daniel Gray, Richard J. Henry, Jr., Dale Lind,
Doug Malin

Advisory Councils:

Accounting: Richard Center, Rhonda Champion, Richard Green,
Bo Just, Calvin Wiese

Long-Term Health Care: Forrest Preston, Chair; Glen Choban,
Bob Gore, Dan Gray, Richard Henry, Dale Lind, Douglas
Malin, Jan Rushing, Ben Wygal

Marketing: Barry Anthony, Bud Cason, Danny Fall, Johnny Phillips

The courses and programs offered by the department are designed to prepare students for business-related careers with the church, government, industry, and in long-term health care and to train students for secretarial, office work, and office administration in the modern office.

The objectives of the department are:

1. To give the student a broad background of knowledge of the free enterprise system within a framework of moral and ethical guidelines.
2. To assist the student to develop a sound Christian philosophy toward our current economic environment and the ever-changing business world of the future.
3. To provide the student with a quality academic program with basic business skills required for initial job placement.
4. To encourage Seventh-day Adventist students to serve as workers and in positions of business leadership with organizations sponsored by this denomination.
5. To train office managers, administrative assistants, executive secretaries, and word processing operators and managers.
6. To provide the necessary academic background for entrance into most graduate degree programs in business.

The department offers a Bachelor of Business Administration degree (B.B.A.) with majors in Accounting, Management, Marketing, and Computer Information Systems and a Bachelor of Science degree (B.S.) with majors in Business Administration, Long-Term Health Care, and Office Administration.

For those who desire a two-year program, Associate of Science degrees (A.S.) are available in Accounting and Office Administration. A pre-professional degree in Health Information Administration is also available.

Students wishing to receive secondary teacher certification in Business Education must complete a baccalaureate degree and complete the professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 149.

ASSESSMENT OF MAJORS

To help the graduates in Business and Office Administration to evaluate their academic progress and to aid the department in evaluating teaching effectiveness, students who major in business related fields will be required to:

1. Participate in the college-wide Sophomore testing program in general education.
2. Take the area test in business prepared by the Educational Testing Service (ETS) during the last semester of their academic program, and
3. Accounting majors who plan to enter public accounting will be evaluated by their performances on the National CPA exam.

PROGRAMS IN BUSINESS AND OFFICE ADMINISTRATION

B.B.A. Core Requirements: The B.B.A. degree requires a basic core of business courses plus a major in Accounting, Management, Marketing, or Computer Information Systems.

Basic Core Course requirements are as follows: ACCT 221-222, 321; ECON 224, 225; BUAD 126, 128, 234, 314, 315, 339, 358, 488; BMKT 226; OFAD 315. Among the General Education requirements, the B.B.A. degree students must include SPCH 135, CPTR 106, 126, MATH 120, 215, and a course in psychology. BUAD 315 and BMKT 226 are not required for the major in Computer Information Systems.

Major--Accounting: 24 hours plus the B.B.A. Core Requirements: ACCT 311-312, 316, 322, 417, 421; Electives in Accounting, 3 hours. Calculus I, MATH 181, is recommended for those who plan to pursue a graduate program in business.

**Typical Sequence of Courses for
B.B.A. ACCOUNTING**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
BUAD 128	Personal Finance		3	BUAD 234	Prin of Management	3	
ENGL 101-102	College Composition	3	3	ECON 224,225	Prin of Economics	3	3
CPTR 106	Intro to Spreadsheet		1	SPCH 135	Intro to Public Spkg		3
CPTR 126	Spreadsheet Application		2		Area B, Religion	3	
MATH 120	College Algebra	3			Area E, Nat Science		3
	Area B-1, Religion	3			Area D-2, Literature	3	
	Area F-1, Psychology		3		Area G-1/G-3, Skills	1	1
	Area C-1, History	3	3		Area F-2, Fam/Hlth Sci		2
	Area G-3, Rec Skills	1	1			16	15
		16	16				
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 211-212	Inter Accounting	4	4	ACCT 316	Gov't Accounting		3
ACCT 322	Cost Accounting		3	ACCT 417	Auditing	4	
BUAD 339	Business Law		3	ACCT 421	Federal Income Taxes	3	
ACCT 321	Managerial Acct	3		BUAD 358	Legal, Ethical Env of Business		3
BMKT 226	Intro to Marketing	3					
BUAD 315	Business Finance	3		BUAD 488	Seminar in Bus Admin		1
BUAD 314	Quant Meth-Bus Decis		3	OFAD 315	Bus Communications		3
MATH 215	Statistics	3			Area B, UD Religion		3
	Area B-2, Religion		3		Area D-3, Fine Art App	3	
		16	16		Accounting Electives	3	1
					Area E, Nat Science		3
						16	14

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major--Management: 21 hours plus the B.B.A. Core Requirements:
BUAD 344, 353, 354, 414; ECON 314; Electives in ACCT, BUAD, BMKT, 6 hours.

**Typical Sequence of Courses for
B.B.A. BUSINESS MANAGEMENT**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
BUAD 128	Personal Finance		3	BUAD 234	Prin of Management	3	
CPTR 106	Intro to Spreadsheet		1	ECON 224,225	Prin of Economics	3	3
CPTR 126	Spreadsheet Applications		2	SPCH 135	Intro to Public Spkg		3
ENGL 101-102	College Composition	3	3		Area B, Religion	3	
MATH 120	College Algebra	3			Area E, Nat Science	3	
	Area B-1, Religion	3			Area D-2, Literature		3
	Area F-1, Psychology		3		Area G-3, Rec Skills		1
	Area C-1, History	3	3		Area F-2, Fam/Health		2
	Area G-1 or G-3, Skls	1	1			15	15
		16	16				

BUSINESS AND OFFICE ADMINISTRATION

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Mang Accounting	3		BUAD 353	Mgmt of Small Bus	3	
BMKT 226	Intro to Marketing	3		BUAD 354	Prin of Risk Mgmt		3
BUAD 315	Business Finance	3		BUAD 358	Legal, Eth Env of Bus	3	
BUAD 314	Quant Meth-Bus Decis		3	BUAD 414	Business Strategies		3
BUAD 339	Business Law		3	BUAD 488	Seminar in Bus Admin		1
BUAD 344	Human Resource Mgmt		3	ECON 314	Money & Banking		3
MATH 215	Statistics	3		OFAD 315	Bus Communications	3	
	Area B-2, Religion		3		Area B, UD Religion		3
	Area E, Nat Science		3		Area D-3, Fine Art App	3	
	Electives	3	1		Electives in Business	3	3
		15	16			15	16

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major--Marketing: 21 hours plus the B.B.A. Core Requirements:
BUAD 354; BMKT 327, 328, 423, 424, 425, 428.

Typical Sequence of Courses for B.B.A. MARKETING

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Princ of Accounting	3	3
BUAD 128	Personal Finance		3	BMKT 226	Intro to Marketing	3	
ENGL 101-102	College Composition	3	3	BUAD 234	Prin of Management	3	
CPTR 106	Intro to Spreadsheet		1	SPCH 135	Intro to Public Spkg		3
CPTR 126	Spreadsheet Applica		2	ECON 224,225	Prin of Economics	3	3
MATH 120	College Algebra	3			Area B, Religion		3
	Area B-1, Religion	3			Area D-2, Literature		3
	Area F-1, Psychology		3		Area E, Nat Science	3	
	Area C-1, History	3	3		Area G-3, Rec Skills		1
	Area G-1/G-3 Skills	1	1			15	16
		16	16				
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Mang Accounting	3		BUAD 315	Business Finance	3	
BUAD 314	Quant Meth-Bus Decis		3	BUAD 414	Business Strategies		3
MATH 215	Statistics	3		BMKT 423	Promotional Strategy	3	
BUAD 339	Business Law		3	BMKT 424	Marketing Strategy		3
BUAD 354	Prin of Risk Mgmt		3	BMKT 425	Marketing Research		3
BUAD 358	Legal, Eth Env of Bus	3		BMKT 428	Marketing Management		3
BUAD 488	Seminar in Bus Admin		1		Area B, UD Religion	3	
BMKT 327	Consumer Behavior	3			Area D-3, Fine Art App	3	
BMKT 328	Sales Management	3			Area F, Beh/Fam/ Hlth Sci		2
	Electives		3		Electives	3	2
	Area B-2, Religion		3			15	16
		15	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major--Computer Information Systems: the B.B.A. Core requirements plus CPTR 106, 126, 131-132, 217, 317, 318, 319, 324, 325, 326, 485; Cognates: MATH 120, 181, 215; SPCH 135; a psychology course.

**Typical Sequence of Courses for
B.B.A. COMPUTER INFORMATION SYSTEMS**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
CPTR 106	Intro to Spreadsheet		1	BUAD 128	Personal Finance		3
CPTR 126	Spreadsheet Applica		2	CPTR 217	COBOL Programming	3	
CPTR 131	Fund of Prog I	3		CPTR 317	Intro to File Process		3
CPTR 132	Fund of Prog II		3	ECON 224,225	Prin of Economics	3	3
ENGL 101-102	College Composition	3	3	MATH 120	College Algebra	3	
SPCH 135	Intro to Public Spkg		3		Area B, Religion	3	
	Area B-1, Religion	3			Area D-3, Fine Arts		3
	Area C-1, History	3	3		Area G-3, Rec Skills		1
	Area G-1/G-3, Skills	1	1			15	16
		16	16				
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
ACCT 321	Cost & Mang Acct I	3		BUAD 358	Legal-Ethical Env		
BUAD 234	Prin of Management	3			of Business	3	
BUAD 314	Quant Mthds-Bus Dec		3	BUAD 339	Business Law		3
BUAD 488	Seminar in Bus Admin		1	CPTR 326	Systems Management	2	
CPTR 318	Data Structures	3		CPTR 485	Computer Sci Seminar		1
CPTR 319	Data Base Mgmt Systems	3		MATH 181	Calculus I		3
CPTR 324	Systems Analysis	2		OFAD 315	Business Communica	3	
CPTR 325	Systems Design		2		Area B, UD Religion		3
MATH 215	Statistics	3			Area E, Science	3	3
	Area B, Religion		3		Area F, Psychology		3
	Area D-2, Literature		3		Electives	2	3
	Area F-2, Family Sci					16	16
	OR	2					
	Area F-3, Health Sci						
		16	15				

*Recommended Courses to take

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

BACHELOR OF SCIENCE DEGREES

Major--Business Administration: 46 hours: ACCT 221-222, 321; BUAD 234, 314, 315, 339, 358, 414, 488; BMKT 226; ECON 224, 225, MATH 215; Six hours of electives in business, marketing, and accounting courses. Cognate requirements: CPTR 106, 126, OFAD 315, and SPCH 135.

Typical Sequence of Courses for B.S. BUSINESS ADMINISTRATION

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
BUAD 128	Personal Finance		3	BUAD 234	Prin of Management	3	
ENGL 101-102	College Composition	3	3	ECON 224-225	Prin of Economics	3	3
CPTR 106	Intro to Spreadsheet		1		Area F-1, Psychology	3	
CPTR 126	Spreadsheet Applica		2		Area B, Religion	3	
SPCH 135	Intro to Public Spkg		3		Area D-2, Literature		3
MATH 120	College Algebra	3			Area G-3, Rec Skills	1	
	Area B-1, Religion	3			Area E, Nat Science		3
	Area C-1, History	3	3		Electives		3
	Area G-1/G-3 Skills	1	1			16	15
		16	16				
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 321	Managerial Accounting	3		BUAD 315	Business Finance	3	
BMKT 226	Intro to Marketing	3		BUAD 414	Business Strategies		3
BUAD 339	Business Law		3	BUAD 488	Seminar in Bus Admin		1
BUAD 314	Quant Meth-Bus Decis		3	OFAD 315	Bus Communications	3	
BUAD 358	Legal, Ethical, Env of Business	3			Area B, UD Religion	3	
MATH 215	Statistics	3			Area D-3, Fine Art App		3
	Area B, Religion		3		Area F-2, Fam/Hlth Sc	2	
	Area E, Nat Science	3			Elective in Acctg, Business, or BMKT	3	3
	Electives		6		Electives	1	6
		15	15			15	16

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major--Long-Term Health Care: 51 hours: ACCT 221-222, 321; BMKT 226; BUAD 234, 315, 339, 358, 431, 432, 434, 435, 497; ECON 224, 225. Cognate requirements: CPTR 106, 126, and SOCI 349.

Students who have previously earned a bachelor's degree from an accredited college or university and who have completed all classwork required for a long-term health care major other than the specialized long-term health care classes, may receive a Bachelor of Science degree with a major in long-term health care upon the completion of 20 hours of long-term health care classes (BUAD 431, 432, 434, 435, 497).

This exception to the 30-hour residence requirement applies only to those who have completed all other major course requirements for the long-term health care degree at another institution and have received a bachelor's degree.

**Typical Sequence of Courses for
B.S. LONG-TERM HEALTH CARE**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	ACCT 221-222	Prin of Accounting	3	3
CPTR 106	Intro to Spreadsheet		1	ECON 224-225	Prin of Economics	3	3
CPTR 126	Spreadsheet Applica		2		Area B, Religion		3
MATH 120	College Algebra	3			Area D-2, Literature		3
SPCH 135	Intro to Public Spkg	3			Area E, Nat Science	3	
	Area E, Nat. Science		3		Area F, Fam/Hlth Sci	2	
	Area B-1, Religion	3			Area G-3, Rec Skills		1
	Area C-1, History	3	3		Electives	3	3
	Area F-1, Psychology		3			14	16
	Area G-1/G-3, Skills	1	1				
		16	16				
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
ACCT 321	Managerial Accounting	3		BUAD 497	LTHC Admin Intrnshp	8	
BMKT 226	Intro to Marketing		3		Area B, UD Religion		3
BUAD 234	Prin of Management	3			Electives		8
BUAD 315	Business Finance	3				8	11
BUAD 339	Business Law		3				
BUAD 358	Legal, Ethical, Env of Business		3				
SOCI 349	Aging & Society		3				
	Area D-3, Fine Art App		3				
	Electives		6				
		15	15				
SUMMER (AFTER YEAR 3)							
BUAD 431	Gen Admin of LTHC Facil	3					
BUAD 432	Tech Aspects of LTHC		3				
BUAD 434	Fin Mgmt of LTHC Facil	3					
BUAD 435	Hum Res Mgmt/Mkt LTHC	3					
		12					

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Associate of Science Degree Major--Accounting: 32 hours:
ACCT 221-222, 311-312, 321; BUAD 126, 128, 358; ECON 213 or 224;
Three hours of electives in ACCT, BUAD, or ECON. Cognate
requirements: CPTR 106, 126; OFAD 105 or equivalent.

Typical Sequence of Courses for A.S. ACCOUNTING

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 221-222	Prin of Accounting	3	3	ACCT 311-312	Inter Accounting	4	4
ENGL 101-102	College Composition	3	3	ACCT 321	Mang Accounting	3	
BUAD 126	Intro to Business	3		BUAD 128	Personal Finance	3	
CPTR 106	Intro to Spreadsheet		1	BUAD 358	Legal, Ethical, Env of Business	3	
CPTR 126	Spreadsheet Applica		2		Area B-2, Religion		3
ECON 224	Prin of Economics				Area C-1, History	3	
	OR	3			Area D-2, Literature		
ECON 213	Survey of Economics				OR		3
	Area B-1, Religion	3			Area D-4, Speech		
	Area F-1, Psychology		3		Area E, Nat Science		3
	Area G-3, Rec Skills	1			Business Elective		3
	Area A-2, Math		0-3			16	16
	Electives		4-1				
		16	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially the requirements of make-up of admissions deficiencies.

Major--Office Administration: 49 hours: OFAD 115, 213, 214, 216, 218, 221, 223, 225, 228, 315, 317, 345; ECON 213 or 224; BUAD 234, 339, 344; three hours of upper division electives in OFAD, BUAD, ACCT, or ECON. Cognate requirements: ACCT 221-222, CPTR 120 or equivalent.

Typical Sequence of Courses for B.S. OFFICE ADMINISTRATION

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
OFAD 115	Document Formatting	3		ACCT 221-222	Prin of Accounting	3	3
OFAD 213	Information Res Mgmt	3		OFAD 214	Microcomput Doc Prod	3	
OFAD 216	Business English	3		OFAD 228	Speedwriting Tech	3	
OFAD 218	Business Math Cal		2	OFAD 315	Bus Communications		3
OFAD 221	Office Transcription		3	OFAD 317	Office Admin Proceod		3
OFAD 223	Office Systems Tech		3	OFAD 345	Computer-Aided Publish		3
OFAD 225	Professional Development		2		Area B, Bible		3
ENGL 101-102	College Composition	3	3		Area D, Lit/Lang/FA/ Speech	3	
	Area B, Bible	3			Area E, Science		3
	Area C, History		3		Area F, Beh Science	2	
	PE.	1				17	15
		16	16				

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BUAD 339	Business Law		4	BUAD 234	Prin of Management	3	
CPTR 120	Computer-Based Sys	3		BUAD 344	Human Resource Mgmt		3
ECON 213	Survey of Economics	3			Area B, Bible		3
	Area A-2, Mathematics	3			Area C, History		3
	Area B, Bible		3		Area D, Lit/Lang/FA/ Speech	3	
	Area D, Lit/Lang/FA/ Speech		3		Area F, Behavioral Sci	3	
	Area E, Science	3			Area G-1, or G-3	2	
	Elective: OFAD, BUAD, ACCT, ECON		3		Electives	3	6
	Electives	3	3			14	15
		15	16				

Major--Associate of Science Degree, Office Administration: 40 hours: Core Requirements: OFAD 115, 213, 214, 216, 218, 221, 223, 225, 228, 230, 315, 317, 345; ACCT 103 or 221.

**Typical Sequence of Courses for
A.S. OFFICE ADMINISTRATION**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	ACCT 103	College Accounting OR	3	
OFAD 115	Document Formatting	3		ACCT 221	Prin of Accounting		
OFAD 213	Info Resource Mgmt	3		OFAD 214	Micro Doc Prod	3	
OFAD 216	Business English	3		OFAD 228	Speedwriting Tech	3	
OFAD 218	Business Math Cal		2	OFAD 230	Applied Office Practice		3
OFAD 221	Office Transcription		3	OFAD 315	Bus Communications		3
OFAD 223	Office Systems Tech		3	OFAD 317	Office Admin Proceed		3
OFAD 225	Prof Development		2	OFAD 345	Computer-Aided Publish		3
	Area B, Bible	3			Area B, Bible		3
	Area C, History		3		Area D, Lit/Lang/FA/Speech		3
	Physical Ed	1	16		Area E, Science	3	
		16	16		Area F, Behavior Sci	2	
						17	15

Major--A.S. Health Information Administration (Formerly Pre-Medical Records Administration Program)--BIOL 101-102; MATH 103; PSYC 124; BIOL 151-152; OFAD 115; ACCT 221-222. Cognate requirement: ENGL 102.

**Typical Sequence of Courses for
A.S. HEALTH INFORMATION ADMINISTRATION
Formerly Medical Records Administration
(Allied Health Professions)**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	ACCT 221-222	Prin of Accounting	3	3
BIOL 101-102	Anatomy & Physiology	3	3	SOCI 223	Marriage & Family	2	
PSYC 124	Intro to Psychology	3			Area C-1, History	3	3
OFAD 115	Document Formatting	3			Area B, Religion	3	3
MATH 103	Survey of Math		3		Area D, Lang/Lit/ Fine Arts	2	3
	Area B, Religion		3	BIOL 151-152	General Biology	4	4
	Area D-4, Speech		3			17	16
	Area D, Lang/Lit/F Arts	3					
	Area G-3, Rec Skills		1				
		15	16				

NOTE: C- is the lowest acceptable grade for a course. The Allied Health Professions Admissions Test (AHPAT) is required.

**MINORS IN BUSINESS, MARKETING, AND
OFFICE ADMINISTRATION, 18 HOURS:**

Business Administration: ACCT 221-222; ECON 213 or 224; BUAD 234 or 344; and 6 hours of upper division in ACCT, BUAD, or ECON.

Marketing: BMKT 226, 327, 424, plus 9 hours of electives in marketing.

Office Administration: OFAD 115, 216, 221, 223, 315, 345.

ACCOUNTING

ACCT 103. College Accounting (G-2) 3 hours

This course covers the fundamental accounting processes dealing with the bookkeeping and accounting functions for the small business, professional offices, merchandising firms and service organizations. This course does not apply toward a bachelor's degree offered by the Department of Business and Office Administration. (Fall)

ACCT 221-222. Principles of Accounting (G-2) 3,3 hours

A course designed to introduce the student to the "Generally Accepted Accounting Principles." The theory of debit and credit, transaction analysis, financial statement preparation, analysis of basic balance sheet accounts, income recognition, and basic management accounting concepts are covered. Usually not open to freshmen. (Fall, Spring, Summer)

ACCT 311-312. Intermediate Accounting 4,4 hours

Prerequisite: ACCT 221-222.

An advanced course in accounting principles and theory including preparation of financial statements, intensive study and analysis of the classification and evaluation of balance sheet accounts and their related income and expense accounts. (Fall, Spring)

ACCT 316. Governmental and Fund Accounting 3 hours

Prerequisite: ACCT 221-222

A course designed to provide an in-depth coverage of the concepts of fund accounting as they apply to governmental units and not-for-profit institutions including schools and hospitals. Attention will be given to the pronouncements of the Governmental Accounting Standards Board. (Spring)

ACCT 321. Managerial Accounting 3 hours

Prerequisite: ACCT 222.

A study of cost accounting fundamentals with emphasis on accounting as a managerial tool. Special attention is given to cost-volume-profit relationships, job-order costing, budgeting, standard costing, capital budgeting, cost behavior patterns, transfer pricing, and divisional performance measurement. (Fall)

ACCT 322. Cost Accounting 3 hours

Prerequisites: ACCT 321 and MATH 215.

An in-depth study of the more technical aspects of cost accounting systems, including cost allocations, joint product and by-product accounting, actual, standard, and direct cost methods. Process cost is emphasized. The more quantitative aspects of management are covered including decision-making under uncertainty, inventory control, cost behavior and regression analysis, the variance investigation decision, and mix and yield variances. (Spring)

ACCT 415. Advanced Accounting 3 hours

Prerequisite: ACCT 311-312.

A course designed to study the problems concerned with consolidated financial statements, partnerships, business firms in financial difficulty, estates and trusts, foreign exchange, segment reporting. (Spring)

ACCT 417. Auditing 4 hours

Prerequisite: ACCT 311-312.

A course designed to study auditing and its related types of public accounting work including generally accepted auditing standards, professional code of ethics of the AICPA, and auditing procedures. (Fall)

ACCT 418, 419. C.P.A. Review Problems 3,3 hours

Prerequisite: Permission of instructor.

A course designed to study accounting theory, auditing, accounting practice, and business law as exemplified by the official accounting pronouncements of the AICPA and FASB. (Fall, Spring)

ACCT 421. Federal Income Taxes I 3 hours

Prerequisite: ACCT 221

An introductory course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems of individuals. Primary emphasis is on Federal Income Taxes but Social Security Taxes will also be included. (Fall)

ACCT 422. Federal Income Taxes II 3 hours

Prerequisite: ACCT 421

A course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems facing corporations, partnerships, estates, trusts. An introduction to tax research will also be included. (Spring)

ACCT 443. Accounting Systems I 3 hours

Prerequisite: ACCT 222

A study of accounting information systems. Internal control, reporting systems, computer based systems and systems development will be covered. (Fall)

ECONOMICS

ECON 213. Survey of Economics (C-2) 3 hours

A course designed for the general education student. It provides an understanding of the United States' mixed economy through a study of the market system, the role of money, the government's fiscal policy, and the impact of the foreign sector. This course does not apply on a major in accounting, management, or marketing. No credit is available if ECON 224 or 225 has been taken. (Fall)

ECON 224, 225. Principles of Economics (C-2) 3,3 hours

ECON 224 (Macroeconomics) deals with total employment, output and income, with inflation and recession, and with the variables that influence these conditions. ECON 225 (Microeconomics) deals with scarcity and choice, individual goods and markets, and the price mechanism showing how it automatically directs the society's resources into the most desirable uses.

ECON 314. Money and Banking 3 hours

Prerequisite: ECON 224.

Mediums of exchange, money and credit, banks, and their services, the Federal Reserve System, and other financial institutions are considered. (Spring)

BUSINESS ADMINISTRATION

BUAD 126. Introduction to Business (G-2) 3 hours

A course designed to provide a basic understanding of the American business system and free enterprise concepts. Business practices, business terminology and contemporary business issues are covered. (Fall, Spring)

BUAD 128. Personal Finance (F-2) 3 hours

A course in basic economic concepts and business terminology and practices designed to provide the techniques to manage personal finances. Budgeting, consumerism, insurance, home ownership, and investments are included in the topics covered. (Fall, Spring)

BUAD 234. Principles of Management 3 hours

A beginning course designed to study business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics. (Fall)

BUAD 314. Quantitative Methods for Business Decisions 3 hours

Prerequisite: MATH 215.

Linear Programming--simplex method, primal/dual interpretation, transportation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)

BUAD 315. Business Finance (W) 3 hours

Prerequisite: ACCT 221-222.

A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization. (Fall, Summer)

BUAD 339. Business Law 3 hours

A course design to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. (Spring)

BUAD 344. Human Resource Management 3 hours

An introduction to the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at high levels. Among topics covered are selection, training, compensation and financial incentives, work standards, techniques of supervision and leadership. (Spring)

BUAD 353. Management of a Small Business 3 hours

A course on the principles and problems of organizing and operating a small business. Topics covered will include a procedural system for establishing a new business, providing physical facilities, financing, organizing, and the management of the small business. (Fall)

BUAD 354. Principles of Risk Management 3 hours

An introductory study in the field of risk management. Material covered includes risk identification and measurement, insurance contracts and risk control tools. Insurance categories covered include liability, property, health and life. The primary emphasis will be on business applications, but some consideration will be given to the personal risk. (Spring)

BUAD 358. Legal, Ethical, and Social Environment of Business 3 hours

A study of how business should operate within the legal, ethical and political environment, its relationship to government agencies and control, and how individuals in leadership should relate to various social and ethical problems. (Fall)

BUAD 414. Business Strategies (W) 3 hours

Prerequisites: BUAD 234, 315; ACCT 222; BMKT 226

This course of study is designed to give the student experience in decision-making and problem-solving through the case method. Students learn to identify, analyze, propose alternative solutions and make satisfactory decisions about business problems. Attention will be given both to internal problems and the external competitive nature of business. (Spring)

BUAD 425. Investment Analysis (W) 3 hours

Prerequisite: ACCT 222.

A practical, as well as a theoretical, approach is taken for the potential investor of institutional or personal funds through the use of problems, readings, and cases. Topics covered will include stocks and bonds in the security market, real estate, and fixed equipment investments. (Spring)

BUAD 431. General Administration of the Long-Term Care Facility 3 hours

A study of management tools and techniques including theories of organization and management, mechanisms for planning, organizing, directing, and controlling, including a review of the history and philosophy of facilities. A review of licensing requirements, insurance, business law, human relations and public relations will also be included. (Summer)

BUAD 432. Technological Aspects of Long-Term Care 3 hours

A detailed study of the technical aspects of long-term care administration. Their relationship to other health care facilities in the total health care system, and technically related medical relationships and services. A complete review of OBRA is also included. (Summer)

BUAD 434. Financial Management of the Long-Term Care Facility 3 hours

A review of techniques and interpretation of financial information for management decision-making in the long-term care facility. (Summer)

BUAD 435. Human Resource Management and Marketing of the Long-Term Care Facility 3 hours

A study of the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at a high level. Selection, compensation, financial incentives, work standards, and leadership are the topics that will be covered. Marketing functions, problems, services, and competitive practices will also be covered. (Summer)

BUAD 488. Seminar in Business Administration 1 hour

This course will include the Eugene Anderson Lecture Series in business. Top men and women in their field will present lectures in insurance, real estate, finance, retailing, production management, etc. Attendance at ten lectures will be required. This course may be repeated for credit. (Spring)

BUAD 295/495. Directed Study 1-3 hours

Individual research work open only to business majors. Content to be arranged. Approval must be secured from Department Chair prior to registration.

BUAD 497. Long-Term Care Administration Internship 8 hours

A tailored program of management experience in a selected long-term care facility will include 400 clock hours of on-the-job experience. The tuition charge for eight semester hours is \$1,200. For an additional fee of \$1 per clock hour students may take additional on-the-job experience required for national examinations in some states. The internship will be limited to an area within 600 miles of Southern College, and if it is beyond that additional fees may be imposed to cover the cost. The number of on-site visits by college personnel will depend on the past experience between the college and the facility and on the qualifications of the preceptor involved. To maintain college control, two visits per internship will be normal. With good past experience and a highly qualified preceptor, one visit will be expected. Three visits may be needed if difficulties arise. The number of required visits is at the discretion of the college.

MARKETING

BMKT 226. Introduction to Marketing 3 hours

A study of the nature and functions of marketing. Includes marketing institutions, basic problems in the marketing of commodities and services, price policies, and competitive practices. (Fall)

BMKT 327. Consumer Behavior 3 hours

Prerequisite: BMKT 226.

An analysis of the consumer decision making process where behavioral science is combined with marketing theory to enable the marketer to understand and predict consumer behavior in the various stages of the buying decision. (Fall)

BMKT 328. Sales Management 3 hours

Prerequisite: BMKT 226.

An examination of the basic sales processes necessary to achieve organizational objectives and the professional techniques used in the management of the sales force ranging from planning-recruiting to day-to-day management. (Fall)

BMKT 423. Promotional Strategy**3 hours**

Prerequisite: BMKT 226.

An analysis of the communication function of marketing. Advertising, public relations, sales promotions, and personal selling are examined to enable the student to design an appropriate and complete promotional strategy for the business organization. (Spring)

BMKT 424. Marketing Strategy**3 hours**

Prerequisite: BMKT 226.

A case study approach to the solving of major marketing problems of various organizations and the ability to formulate appropriate strategies in responding to the presented case problems. (Spring)

BMKT 425. Marketing Research**3 hours**

A study of the role of research in marketing decision-making; research process, scientific methods; analysis and interpretation of research findings. (Spring)

BMKT 428. Marketing Management**3 hours**

Prerequisite: BMKT 226.

This course is to design a real work marketing plan. Starting with organizational objectives, research is designed and then implemented with a marketing recommendation report to the participating business organization. (Spring)

OFFICE ADMINISTRATION**OFAD 105. Keyboarding (G-2)****3 hours**

This course is designed to introduce students to touch typing and basic formatting techniques. Emphasis is on mastery of the keyboard, developing basic keyboarding skills and formatting basic documents, including personal letters, business letters, memos, envelopes, tables, reports, outlines, and centered material such as announcements. Speed objective: 25-40 wpm. Not open to challenge examination. (Fall)

OFAD 115. Document Formatting (G-2)**3 hours**

Prerequisite: Placement test required.

This course builds on the keyboarding competencies students have developed. Emphasis is placed on increasing speed, improving accuracy, developing formatting skills, and learning production skills. Not open to challenge examination. (Fall)

OFAD 213. Information Resource Management**3 hours**

Basic principles and procedures of storage and control of records involving a study of rules for alphabetic filing and projects on five methods of storage. An overview of automated file, using computer software. The criteria by which records are created, stored, used, and transferred are studied. (Fall)

OFAD 214. Microcomputer Document Production (G-2)**3 hours**

Prerequisite: OFAD 115.

The microcomputer is used to provide experience in producing documents found in typical business offices. The major focus of the course is productivity and excellence in document production. Emphasis is also placed on the mastery of word processing functions, composition skills, and application of communication skills. (Fall)

OFAD 216. Business English**3 hours**

Pre- or corequisite: ENGL 101.

An intense study of elementary grammar, punctuation, vocabulary, spelling, and word usage as necessary for the fundamentals of business communication. (Fall)

OFAD 218. Business Math Calculations (G-2)**2 hours**

Prerequisite: MATH 099 or ACT score of 16 or above.

The use of the electronic calculator to solve basic business arithmetic operations, such as percentages, interest, discounts, fractions, merchandising, payroll, depreciation and use of credit. (Spring)

OFAD 221. Office Transcription**3 hours**

Prerequisite: ENGL 101, OFAD 216.

Pre- or corequisite: OFAD 214.

Development of skill in producing mailable office documents, using machine dictation. Focuses upon the development of business grammar, punctuation and document styles used in office transcription, regardless of the input media or kind of keyboarding equipment used. (Spring)

OFAD 223. Office Systems Technology**3 hours**

An introduction to office systems. Through lectures, films and field trips, the student will learn about people, procedures and technology for the modern office environment. (Spring)

OFAD 225. Professional Development (G-2)**2 hours**

A program designed to provide an awareness of the "people" skills essential for job success. Topics include developing a positive self-image, ethics, time management, human relations and communications skills, organizational dynamics, and professional development. (Spring)

OFAD 228. Speedwriting Techniques (G-2)**3 hours**

Prerequisite: OFAD 115, 216, 221 or permission of instructor.

This course provides instruction in "SuperWrite," an abbreviated writing system, based on the letters of the alphabet; designed to provide a fast method of notetaking. Fundamental principles presented and applied, together with transcription emphasis and practice. (Fall)

OFAD 230/430. Applied Office Practice**3 hours**

Pre- or corequisite: OFAD 317.

Supervised on-campus work program in an administrative office of the college or related industries. Conferences scheduled with instructor during semester for guidance and evaluation. Arrangements to be made in advance with department instructor. Open only to senior Office Administration majors. (Spring)

OFAD 315. Business Communications (W)**3 hours**

Prerequisite: ENGL 101, 102.

A study and application of the modern practices in oral and written business communications. Accuracy in grammar, spelling and punctuation, and the writing of well-knit sentences and clear paragraphs are taught as a means of effective expression in business letter writing. (Fall, Spring)

OFAD 316. Medical Terminology 3 hours

Pre- or corequisites: OFAD 214, BIOL 101, or consent of instructor.

A study of medical terms--their pronunciation, spelling, and meaning and their application to medical secretarial work. (Fall)

OFAD 317. Office Administration Procedures 3 hours

Prerequisite: OFAD 213, 214, 223.

An integration of skills learned in previous office administration courses, together with emphasis on decision-making ability, judgment, business ethics and initiative used in the profession. Lectures/simulations. (Spring)

OFAD 333. Advanced Medical Terminology and Transcription 3 hours

Prerequisite: OFAD 223 and 316.

Continued emphasis on medical vocabulary, with emphasis on specific areas of medicine. Skill and knowledge developed in the transcription techniques and procedures of medical dictation. (Spring) **Not to be taught after the 1992-93 school year.**

OFAD 245/345. Computer-Aided Publishing (G-2) 3 hours

This course is cross-listed with CPTE 245/345, Computer Science and Technology Department. A student may receive credit for this course from only one department.

An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready documents without conventional paste-up and typesetting services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

OFAD 295/495. Directed Study 1-3 hours

Open only to majors in Office Administration. Research studies related to the field of Office Administration are assigned according to the experience and interest of the student. Length of project determines credit. This course may be repeated for credit.

EDUCATION

EDUC 438. Curriculum and Content Methods/Business 2 hours

Prerequisite: Admission to Teacher Education.

A study of the status, disciplines, and curricular structure of business education, the psychology of skill development and measurement, and lesson development of specific classes. An investigation of instructional materials and resources for the business education classroom. Special areas of instruction will be presented for the endorsement clusters of Basic Business, Accounting, Data Processing and Office Technology.

(G-2), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

CHEMISTRY

Chair: Steven Warren

Faculty: Sterling Sigsworth, Mitchell Thiel

Wiley Austin (Orlando)

Adjunct Faculty: Jim Engel

Since everything we touch, eat, wear, or use is made of chemicals, the study of chemistry is an exciting and yet practical pursuit. A major in Chemistry can be your key to a rewarding and challenging career in a wide variety of areas such as the basic sciences or industrial research, pharmacology, toxicology, chemical engineering, forensic chemistry, chemistry education, medical and paramedical careers, as well as many business applications such as pharmaceutical and chemical sales, patent research and patent law, marketing and consulting, to name just a few.

The B.S. degree in Chemistry is recommended in preparation for graduate study leading to research oriented careers, professional applications of chemistry, or post-secondary education. The B.A. degree is the preferred degree for high-school teaching, premedicine, or preparamedical fields and possibly for some of the business applications.

ASSESSMENT OF MAJORS

In order to aid the department in evaluating teaching effectiveness, nationally standardized tests prepared by the American Chemical Society for each of the various classes will be administered at the end of those classes.

Major (B.A.): Thirty hours including CHEM 151-152, 311-312, 313-314, 315, 321, 485 or 497. CHEM 411-412, 413-414 may be substituted for CHEM 315, 321. The first course in Calculus is a cognate requirement. CPTR 131 is strongly recommended.

Typical Sequence of Courses for B.A. CHEMISTRY*

<u>YEAR 1</u>		<u>Semester</u>			<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>				<u>1st</u>	<u>2nd</u>
CHEM 151-152	General Chemistry	4	4		CHEM 311-312	Organic Chemistry	3	3
ENGL 101-102	College Composition	3	3		CHEM 313-314	Organic Chem Lab	1	1
MATH 120	College Algebra	4				Area B, Religion		3
MATH 181	Calculus I		4			Area C-2, P Sci/Econ	3	
	Area B, Religion	3				Area D, Lit/F Arts/ Speech		3
	Area E, Biol/Phys/ Earth Science		3			Area G-1, Creat Skill OR		2
	Area G-3, Rec Skills		1			Area G-3, Rec Skills		
Electives or Minor		2				Chemistry Elective	3	
		<u>16</u>	<u>15</u>			Electives or Minor		9
							<u>15</u>	<u>16</u>

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
CHEM 315	Analytical Chemistry	4		CHEM 485	Chemistry Seminar	1	
CHEM 321	Instrumental Analysis		4		Area B, UD Religion		3
CPTR 131	Fund of Progm I	3			Area F, Behav/Fam/ Health Science	3	
	Area B, Religion	3			Chemistry Elective	2	
	Area C-1, History	3	3		Electives or Minor	9	12
	Area D-1, For Lang	3	3			15	15
	Area F, Behav/Fam/ Health Science		3				
	Elective		3				
		16	16				

***PLEASE NOTE:** If the student enters during the fall of an odd numbered year, this schedule applies. If the student enters during the fall of an even numbered year, then either years 2 and 3 or years 3 and 4 should be exchanged.

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including CHEM 151-152, 311-312, 313-314, 315, 321, 411, 412, 413, 414, 485, 497, and Advanced Organic Chemistry are required. Cognate requirements are: PHYS 211-212, 213-214, MATH 181, 182 and 315, CPTR 131. German or French is highly recommended. This course of study is designed for the professional chemist. Note that Physical Chemistry will be offered one year and Analytical and Instrumental Chemistries the following year. The student should plan accordingly.

Typical Sequence of Courses for B.S. CHEMISTRY*

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
CHEM 151-152	General Chemistry	4	4	CHEM 311-312	Organic Chemistry	3	3
ENGL 101-102	College Composition	3	3	CHEM 313-314	Organic Chem Lab	1	1
MATH 120	College Algebra	4		MATH 182	Calculus II		3
MATH 181	Calculus I		4		Area B, Religion	3	3
CPTR 131	Funds of Prog I	3			Area C-1, History	3	3
	Area B, Religion		3		Area D, Lang/Lit/ Fine Arts	3	3
	Area G-3, Rec Skills	1			Elective	2	4
	Elective		1			15	16
		15	15				

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
PHYS 211-212	General Physics	3	3	CHEM 411-412	Physical Chemistry	3	3
PHYS 213-214	General Physics Lab	1	1	CHEM 413-414	Physical Chem Lab	1	1
CHEM 315	Analytical Chemistry	4		CHEM 485	Chemistry Seminar	1	
CHEM 321	Instr Analysis		4	CHEM 497	Intro to Research	1-2	
CHEM 495	DS: Adv Organic Chem	3			Area B, UD Religion	3	3
MATH 315	Diff Equations		3		Area C-2, Pol Sci/ Economics		3
	Area F, Beh/Fam/ Health Science		3		Area D, Lang/Lit/ Fine Arts		3
	Area G-1, Creat Skls OR		2		Area F, Behav/Fam/ Health Science	3	3
	Area G-3, Rec Skills				Electives	1-0	2
	Chemistry Electives	3	2			16	15
		16	16				

***PLEASE NOTE:** If the student enters during the fall of an odd numbered year, this schedule applies. If the student enters during the fall of an even numbered year, then years 3 and 4 should be exchanged, and General Physics must be taken during the first or second year or a summer before the junior year.

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours, six of which must be upper division.

Certification to Teach: Secondary certification in Chemistry requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 149.

CHEMISTRY

CHEM 103. Pre-General Chemistry (E-2) 2 hours

Prerequisite: Successful completion of two years of high school algebra or MATH 090.

Basic concepts in chemistry and mathematics as needed to begin General Chemistry. Two hours of lecture each week. Does not apply on a major or minor in chemistry. Taught second semester only. (Spring)

CHEM 111-112. Survey of Chemistry (E-2) 3,3 hours

Prerequisite: A course in high school algebra.

A minimum Mathematics ACT score of 16 or a minimum grade of "C" in MATH 080 are required.

A survey course designed to familiarize the student with the basic principles of inorganic, organic and biochemistry. Three hours of lecture each week. Does not apply to a major or minor in Chemistry. (Fall, Spring, Summer)

CHEM 113-114. Survey of Chemistry Lab (E-2) 1,1 hours

Prerequisite: Previous or concurrent enrollment in CHEM 111-112.

Laboratory material designed to illustrate the material in lectures of CHEM 111-112. Two and one-half hours of laboratory each week. Does not apply on a major or minor in Chemistry. (Fall, Spring)

CHEM 151-152. General Chemistry (E-2) 4,4 hours

Prerequisites: High school chemistry and mathematics through Intermediate Algebra.

An introduction to the fundamental laws and accepted theories along with applications to the various fields of chemistry. Three hours of lecture and three hours of laboratory each week. (Fall, Spring)

CHEM 311-312. Organic Chemistry 3,3 hours

Prerequisite: Successful completion of CHEM 151-152 or its equivalent.

Many of the fundamental functional groups of both aliphatic and aromatic carbon compounds are studied. Attention is also given to spectroscopy, relative reactivities, reaction mechanisms and physical properties of these compounds. There are three hours of lecture each week. (Fall, Spring)

CHEM 313-314. Organic Chemistry Laboratory **1,1 hours**

Prerequisite: Previous or concurrent enrollment in CHEM 311-312.

Experiments are done to acquaint the student with the basic organic chemistry laboratory techniques; melting points, boiling points, recrystallization, distillation, separations, etc. The exercises also illustrate reactions that are discussed in CHEM 311-312. Four hours of laboratory each week. (Fall, Spring)

CHEM 315. Analytical Chemistry **4 hours**

Prerequisite: CHEM 151-152.

A study of equilibria as it applies to analytical chemistry. Techniques of determinations, sampling, handling of data, and the detailed chemistry involved is studied in terms of quantitative determinations. Three hours of lecture and three hours of laboratory each week. This class is offered alternate years. (Fall, odd years)

CHEM 321. Instrumental Analysis **4 hours**

Prerequisite: CHEM 315.

A study of the theories, techniques and instruments involved in spectrometry, chromatography, electrochemistry and radiochemistry. Three lectures and one laboratory session per week. This class is offered alternate years. (Spring, even years)

CHEM 323. Biochemistry **4 hours**

Prerequisite: CHEM 311-312.

The compounds, mechanisms, and end products of the processes of life under normal and pathological conditions are studied. Also some of the techniques for studying these areas are considered. There are four hours of lecture each week and no lab. Up to two hours of credit can be counted toward a biology major. (Spring)

CHEM 411. Physical Chemistry **3 hours**

Prerequisites: CHEM 151-152; CPTR 131 or 218; PHYS 211-212; MATH 315, or permission of instructor.

Gases, kinetic theory, thermodynamics and reaction kinetics are studied with the main emphasis on thermodynamics. There are three hours of lecture each week. This is taught alternate years. (Fall, even years)

CHEM 412. Physical Chemistry **3 hours**

Prerequisite: PHYS 211-212; MATH 315; CPTR 131 or 218, or permission of instructor.

Areas to be studied include: Schroedinger's equation as an operator form of the energy equation; boundary-matching solutions for square wells and barriers; separation-of-variables method for the hydrogen atom; electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms; variation techniques for small atoms and molecules, Hueckel and LCAO methods, or other apparatus not including perturbation theory. There are three hours of lecture per week. This class is offered alternate years. (Spring, odd years)

CHEM 413, 414. Physical Chemistry Laboratory **1,1 hours**

Prerequisites: CHEM 315, also CHEM 411, 412 must be taken concurrently or previously.

Experiments chosen to illustrate material in CHEM 411, 412. One laboratory period each week. This class is offered alternate school years. (Fall, even years; Spring, odd years)

CHEM 425. Advanced Organic Chemistry**3 hours**

Prerequisite: CHEM 312

Compound types, reactions, and intermediates not considered in Organic Chemistry will be studied. Once a sufficient background has been established, an introduction to medicinal chemistry and synthesis of medicinal compounds will be studied. (Fall)

CHEM 485. Chemistry Seminar (W)**1 hour**

Prerequisite: CHEM 311-312.

Written and oral reports are made on specific topics in the chemistry field. To be taken in the junior or senior year. (Fall)

CHEM 295/495. Directed Study**1-3 hours**

Prerequisite: CHEM 151-152.

Designed for junior and senior students who wish to do private study or for a group of students who wish a special course on topics not taught under the regular class offerings. (Fall, Spring)

CHEM 497. Introduction to Research (W)**1-2 hours**

Prerequisite: 20 hours of chemistry or permission of the instructor.

Individual research under the direction of the members of the staff. Problems are assigned according to the experience and interest of the student. Prior to registration, two semesters before graduation, students are urged to contact all chemistry staff members with respect to choice of available problems. This should be taken no later than the first semester of the senior year. (Fall, Spring)

EDUCATION

EDUC 438. Curriculum and Content Methods/Chemistry **2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks.

Taught at the Orlando Center

CHEM 112. Survey of Chemistry (E-2)**3 hours****CHEM 114. Survey of Chemistry Lab (E-2)****1 hour**

(E-2), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

COMPUTER SCIENCE AND TECHNOLOGY

Chair: Bradley Hyde

Faculty: John Durichek, Rick Halterman, Merritt MacLafferty

Adjunct Faculty: John Beckett, Judy DeLay

Computer Science deals with the design and programming of electronic digital computers. In today's society, it is rare that the average person goes through a day without using a computer in some way. Computers are used in cars, microwave ovens, VCR's, TV's and even washing machines. On Wall Street and at NASA, huge banks of computers display the current status. Almost everyone who writes now uses a word processor and even grade-school students are being taught by computers.

With the growing use of computers has come a growing shortage of computer professionals. While some companies must hire untrained applicants, most are seeking employees with the training, skill, and knowledge of a graduate in Computer Science. Graduates from a computer science program find jobs in industry, health care, financial institutions, education, and research.

The student should choose his area of interest and select courses from computer science and other fields that will fit well with his intended career. Some job titles are: Programmer, Systems Programmer, Systems Analyst, Team Leader, Data Base Administrator, Data Processing Manager, Software Engineer, Applications Engineer, Training Specialist, and Technical Writer.

CODE OF COMPUTER CONDUCT AT SOUTHERN COLLEGE

1. Users must use only those computer accounts which have been authorized for their use.
2. Users must use their computer accounts only for the purposes for which they were authorized, as arranged with the Computer Service Department.
3. Users should minimize the impact of their work on the work of other users. It is the responsibility of the user to learn efficient means of utilizing the computer.

4. Users of campus computers must not make or use unauthorized copies of copyrighted software. Shareware may be freely copied, but students who continue to use it should register and pay the specified fee. Violation of copyright is a serious crime and penalties can be severe.
5. Planting "virus" programs or otherwise misusing campus computers in a way that might destroy the work others are doing is thoughtless vandalism and will be dealt with as any other destructive activity on campus.

PROGRAMS IN COMPUTER SCIENCE

Major (B.A.): Thirty hours consisting of CPTR 131, 132, 217, 219, 280, 317, 318, 319, (324 or 325), 485 and three hours of upper division computer electives. Cognates required: MATH 120, 215; BUAD 234.

Minor: Eighteen hours including: CPTR 131, 132, 318. Of the remaining nine elective hours, three must be upper division.

The minor is an excellent background for those whose profession is outside of data processing, but who will have to use the computer in their job, or work closely with DP personnel. The minor is also appropriate for any student who simply has an interest in computers.

Typical Sequence of Courses for B.A. COMPUTER SCIENCE

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	CPTR 217	COBOL Prog Lang	3	
CPTR 131-132	Fund of Prog I, II	3	3	CPTR 280	Discrete Structures	3	
CPTR 219	Sym Assembler Lang		3	CPTR 317	Intro to Fil Proc		3
MATH 120	College Algebra		3	MATH 215	Statistics		3
MATH 090	Int Algebra				Area B, Religion	3	
	OR	3			Area D-1, For Lang	3	3
	Elective				Area F, Behav/Fam/ Health Science		2
	Area C-1, History	3			Area F, Nat Science	3	
	Area B, Religion		3		Area G-3, Rec Skills		1
	Area F, Behav/Fam/ Health Sci				Minor or Elective		3
		3				15	15
		15	15				

COMPUTER SCIENCE AND TECHNOLOGY

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
CPTR 324	Systems Analysis			CPTR 485	Comp Sci Seminar		1
	OR		2		Area B, UD Religion	3	
CPTR 325	Systems Design				Area C-1, History		3
BUAD 234	Prin of Management	3			Area D, Lit/F Arts	3	
	Area B, Religion		3		Area E, Nat Science	3	3
	Area C-2, Pol Sci/				Comp Sci Elective		3
	Economics	3			Minor or Electives	7	6
CPTR 318	Data Structures	3				16	16
CPTR 319	Data Base Mgmt Sys		3				
	Area G-1, Creat Skills						
	OR	1	1				
	Area G-3, Rec Skills						
	Minor or Electives	6	7				
		16	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours consisting of CPTR 131, 132, 217, 219, 280, 317, 318, 319, 324 or 325, 485, and thirteen hours of computer electives, four of which must be upper division. Cognates required: MATH 120, 215; BUAD 234. Only three hours of CPTR 105, 106, 107, and 126 may apply to a major in computer science.

Those electing a B.S. in computer science may desire to work in a specific area of application of computer science, e.g., business, psychology, mathematics, or physics. Such students should include appropriate classes in these areas. A minor or double major should be considered.

Students planning to do graduate work in computer science should definitely take the B.S. degree and include calculus and differential equations.

Typical Sequence of Courses for B.S. COMPUTER SCIENCE

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
CPTR 131	Fund of Prog I	3		CPTR 217	COBOL Prog Lang	3	
CPTR 132	Fund of Prog II		3	CPTR 280	Discrete Structures	3	
CPTR 219	Sym Assembler Lang		3	CPTR 317	Intro to File Proc		3
ENGL 101-102	College Composition	3	3	CPTR 318	Data Structures	3	
MATH 090	Intermediate Algebra			CPTR 319	Data Base Mgmt Sys		3
	OR	3		MATH 215	Statistics		3
	MATH Elective				Area B, Religion	3	
MATH 120	College Algebra		3		Area E, Natural Sci	3	3
	Area B, Religion		3		Area F, Behav/Fam/		
	Area C-1, History	3			Health Science		2
	Area F, Behav/Fam/				Area G-3, Rec Skills		1
	Health Science	3				15	15
		15	15				

COMPUTER SCIENCE AND TECHNOLOGY

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
CPTR 324	Systems Analysis			CPTR 485	Comp Sci Seminar		1
	OR		2		Area B, UD Religion	3	
CPTR 325	Systems Design				Area C-1, History		3
BUAD 234	Prin of Management	3			Area D, Lang/Lit/		
	Area B, Religion		3		Fine Art	3	
	Area C-2, Pol Sci/				Elective, Comp Sci	3	3
	Economics	3			Electives	7	9
	Area D-1, For Lang	3	3			16	16
	Area G-1, Creative						
	OR	1	1				
	Area G-3, Rec Skills						
	Elective, Comp Sci	3	4				
	Electives	3	3				
		16	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major in Computer Information Systems: the B.B.A. Core requirements plus CPTR 106, 126, 131-132, 217, 317, 318, 319, 324, 325, 326, 485; Cognates: MATH 120, 181, 215; SPCH 135; a psychology course.

Typical Sequence of Courses for B.B.A. COMPUTER INFORMATION SYSTEMS

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BUAD 126	Intro to Business	3		ACCT 221-222	Prin of Accounting	3	3
CPTR 106	Intro to Spreadsheet		1	BUAD 128	Personal Finance		3
CPTR 126	Spreadsheet Applica		2	CPTR 217	COBOL Programming	3	
CPTR 131	Fund of Prog I	3		CPTR 317	Intro to File Process		3
CPTR 132	Fund of Prog II		3	ECON 224,225	Prin of Economics	3	3
ENGL 101-102	College Composition	3	3	MATH 120	College Algebra	3	
SPCH 135	Intro to Public Spkg		3		Area B, Religion	3	
	Area B-1, Religion	3			Area D-3, Fine Arts		3
	Area C-1, History	3	3		Area G-3, Rec Skills		1
	Area G-1/G-3, Skills	1	1			15	16
		16	16				
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
ACCT 321	Cost & Mang Acct I	3		BUAD 358	Legal-Ethical Env		
BUAD 234	Prin of Management	3			of Business	3	
BUAD 314	Quant Mthds-Bus Dec		3	BUAD 339	Business Law		3
BUAD 488	Seminar in Bus Admin		1	CPTR 326	Systems Management	2	
CPTR 318	Data Structures	3		CPTR 485	Computer Sci Seminar		1
CPTR 319	Data Base Mgmt Systems		3	MATH 181	Calculus I		3
CPTR 324	Systems Analysis	2		OFAD 315	Business Communica	3	
CPTR 325	Systems Design		2		Area B, UD Religion		3
MATH 215	Statistics	3			Area E, Science	3	3
	Area B, Religion		3		Area F, Psychology		3
	Area D-2, Literature		3		Electives	2	3
	Area F-2, Family Sci					16	16
	OR	2					
	Area F-3, Health Sci						
		16	15				

*Recommended Courses to take

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Associate of Science Degree--Architectural Studies: Thirty-six semester hours including TECH 101, 145, 151, 295; CPTE 147, 245, 249; CPTR 105, 106, 107; ART 104, 110; BMKT 226; BUAD 234, 344; ECON 213. Cognates: ENGL 102; MATH 120; PHYS 137.

The A.S. Degree in Architectural Studies can lead to advanced degrees or employment in the construction industry, the arts, business, and other fields.

Typical Sequence of Courses for A.S. ARCHITECTURAL STUDIES

First Year

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 101	Tech Awareness	2	CPTE 251	CAD Architecture	3
TECH 151	Architectural Drafting	3	ENGL 102	English Composition	3
ART 104	Beginning Drawing	2	ART 110	Design II	3
ENGL 101	College Composition	3	BMKT 226	Intro to Marketing	3
CPTR 105	Intro to Word Proc	1		Religion	3
CPTR 106	Intro to Spreadsheets	1		Skills/Rec Health	1
CPTR 107	Intro to Data Base	1			<u>16</u>
MATH 120	College Algebra	3			
		<u>16</u>			

Second Year

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 145	Intro to Graphic Arts	3	BUAD 344	Human Resource Mgmt	3
CPTE 245	Computer-Aided Pub	3	CPTE 147	Intro to Arch & Inter	3
BUAD 234	Prin of Management	3		History	3
ECON 213	Survey of Economics	3		Lang/Lit/Fine Arts	3
PHYS 137	Intro to Physics	3		Behavior/Family Sci	3
	Religion	3			<u>15</u>
		<u>18</u>			

Associate of Science Degree--Computer Applications: Thirty-five semester hours including TECH 101, 145, 149, 174, 183, 254, 376; CPTE 245, 249; CPTR 105, 106, 107, 131, 219. Cognates: MATH 120, PHYS 137.

The A.S. Degree in Computer Applications provides learning experiences in computer-aided drafting, computer numerically-controlled machines, robotics and automation, desktop publishing and other related computer applications.

Typical Sequence of Courses for A. S. COMPUTER APPLICATIONS

First Year

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 101	Tech Awareness	2	TECH 183	Basic Electronics	3
TECH 149	Mechanical Drawing	2	CPTE 249	Comput-Aided Drafting	3
MATH 120	College Algebra	3	ENGL 102	College Composition	3
	(required cognate)		PHYS 137	Intro to Physics	3
CPTR 105	Intro to Word Perfect	1		Religion	3
CPTR 106	Intro to Spreadsheets	1		Recreation Skills	1
CPTR 107	Intro to Data Base	1			16
ENGL 101	College Composition	3			
	Religion	3			
		16			

Second Year

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 174	General Metals	3	TECH 254	Furniture Design Const	3
TECH 145	Intro to Graphic Arts	3	TECH 376	Automation/Robotics	
TECH 154	Woodworking	3		(CIM)	3
CPTE 245	Comput-Aided Publish	3	CPTR 219	Symbol Assembly Lang	3
CPTR 131	Fund of Programming	3		History	3
	Lang/Lit/Fine Arts	3		Behavior/Family Sci	3
		18		Elective	1
					16

Associate of Science Degree--Computer Science: Twenty-four hours in computer science consisting of: CPTR 131, 132, 217, 219, 317, 318, 319. Cognates required: ACCT 221-222, 321; BUAD 234.

Typical Sequence of Courses for A.S. COMPUTER SCIENCE

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>	<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>		<u>1st</u>	<u>2nd</u>
ACCT 221-222	Prin of Accounting	3	3	ACCT 321	Managerial Accounting	3
CPTR 131	Fund of Prog I	3		BUAD 234	Prin of Mgmt	3
CPTR 132	Fund of Prog II		3	CPTR 217	COBOL Prog Lang	3
CPTR 219	Symbolic Assemb Lang		3	CPTR 317	Intro to Fil Proc	3
ENGL 101	College Composition	3		CPTR 318	Data Structures	3
MATH 090	Intermediate Algebra			CPTR 319	Data Base Mgmt Syst	3
	OR	3			Area B, Religion	3
	MATH Elective				Area C, Hist/Pbl Sci/ Economics	3
MATH 120	College Algebra		3		Area D, Lang/Lit/ Fine Arts	2
	Area B, Religion		3		Area E, Nat Sci	3
	Area G-3, Rec Skill	1			Area F, Behav/Fam/ Health Sci	2
	Electives	3			Elective	1
		16	15			16 16

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements for make-up of admissions deficiencies.

COMPUTER SCIENCE

CPTR 104. Introduction to PC-DOS Usage (G-2) 3 hours

This class is limited to students with no computer background or permission of the instructor. It is designed to introduce the student to the functions and features of the PC-DOS as a preparation for other computer application courses. Some general information about the hardware will be presented so that students may feel less intimidated about adding a new board to the computer or hooking up a new mouse. Students will learn how to format disks, manipulate files, and use many PC-DOS utilities. Does not apply toward a major or minor in computer science, nor does it satisfy the cognate requirements of other majors.

CPTR 105. Introduction to Word Processing (G-2) 1 hour

Prerequisite: A typing course or permission of instructor.

Word processing on a microcomputer including techniques for creating form letters, and using an electronic dictionary to check spelling. (Spring)

CPTR 106. Introduction to Spreadsheets (G-2) 1 hour

Prerequisite: MATH 090 or 103 or Math ACT of 22.

A course using microcomputer spreadsheet programs. The most commonly used functions will be described with simple lab problems.

CPTR 107. Introduction to Data Base Applications (G-2) 1 hour

Prerequisite: CPTR 106.

A course using microcomputers as electronic filing cabinets. Information retrieval, report generation, adding, deleting, and updating information. (Spring)

CPTR 120. Introduction to Computer-Based Systems (G-2) 3 hours

An overview of computer information systems. This survey course introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments of society. The fundamentals of computer problem solving and programming in a higher-level programming language are discussed and applied. This course does not apply on a major in Computer Science. (Fall, Spring)

CPTR 126. Spreadsheet Applications (G-2) 2 hours

Prerequisite: CPTR 106.

The use of spreadsheet software on a microcomputer as an aid to financial planning and management. (Spring)

CPTR 131. Fundamentals of Programming I (G-2) 3 hours

Prerequisite: MATH 090 or MATH ACT of 22 or permission of instructor.

Control structures, data types, data representation, compiling, debugging, modularity, and standard programming algorithms are introduced, using a structured language. (Fall)

CPTR 132. Fundamentals of Programming II (G-2) 3 hours

Prerequisite: CPTR 131.

An introduction to software technology including elementary data structures for the development of reliable, modifiable programs. (Spring)

CPTR 217. COBOL Programming Language (G-2)

3 hours

Prerequisite: CPTR 131.

Semantics and syntax of COBOL. Emphasis is placed on business problems using the COBOL Language. (Fall)

CPTR 219. Symbolic Assembler Language

3 hours

Prerequisite: CPTR 131.

Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, symbolic coding and assembly systems and program segmentation and linkage. Systems and utility programs and programming techniques. Several computer projects to illustrate basic machine structure and programming techniques. (Spring)

CPTR 280. Discrete Structures

3 hours

Prerequisite: MATH 120.

Recommended: Familiarity with a programming language.

An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)

CPTR 317. Introduction to File Processing

3 hours

Prerequisite: CPTR 217.

Tape and disc operations. Includes coverage of sequential and random access files and processing techniques. Development of programs and systems of programs for batch and interactive environments. (Spring)

CPTR 318. Data Structures

3 hours

Prerequisites: CPTR 132 and MATH 120.

Stacks, recursion, queues, lists, trees, graphs, sorting and searching. (Fall)

CPTR 319. Data Base Management Systems

3 hours

Prerequisites: CPTR 318, 217.

Recommended: CPTR 317.

Introduction to relational, hierarchical, and network approaches. Design, implementation, and management issues. (Spring)

CPTR 324. Systems Analysis

2 hours

Prerequisite: CPTR 317 or 319.

System development life cycle, system documentation through the use of both classical and structured tools and techniques for describing data flows, process flows, input and output necessary for defining logical system requirements. Structured techniques for dealing with complexity in the development of computer based information systems.

CPTR 325. Systems Design

2 hours

Prerequisite: CPTR 317 or 319.

Logical and physical system design. Hardware/Software selection and evaluation. Logical Data Base Design. Theories relating to module design, module coupling, and module strength. Techniques for reducing a system's complexity.

CPTR 326. Systems Management 2 hours

Prerequisite: CPTR 317 or 319.

This course presents management principles unique to the data processing environment. Emphasis is placed on site preparation, security, software version control, and user services.

CPTR 365. Operating Systems 3 hours

Prerequisites: CPTR 219, 132.

Computer systems components, main storage organization, instruction sets, data representation, task management and scheduling, secondary storage concepts, multi-processor systems, microprogramming, and array procedures. (Fall, odd years)

CPTR 366. Microcomputer Construction 3 hours

Prerequisites: CPTR 219, 132.

A class with a large lab component. The student will assemble on a plug-board a complete working microcomputer. The class will cover the information necessary to design a microprocessor based computer with static or dynamic memory, ROM, interrupts, DMA, and various types of I/O. Reading manufacturers specifications and working within the timing parameters is an important part of the course. (Spring, even years--enrollment limited to 10 due to lab equipment.)

CPTR 376. Automation and Robotics 3 hours

See CPTE 376 for course description.

CPTR 405. Organization of Programming Languages 3 hours

Prerequisites: CPTR 217, 219.

Develops understanding of the organization of programming languages and their run time behavior. A comparative study, introducing the student to a variety of languages. (Spring)

CPTR 425. Computer Graphics 3 hours

Prerequisites: CPTR 132; MATH 114.

Recommended: MATH 181.

This course teaches the principles of generating graphical images on a computer with an emphasis on the underlying mathematical theory and its programming implementations. Topics include graphics primitives (points, lines, polygons, circles, ellipses), windowing techniques, clipping, 2-D and 3-D transformations, projections, 3-D viewing techniques, cubic interpolating and approximating curves (Bezier, B-spline, Catmull-Rom curves), bicubic 3-D surface patches, light and color, fractal curves and surfaces, hidden line and surface removal, depth sorting techniques, reflections, shading, surface mapping, ray tracing, animation techniques. (Fall, even years)

CPTR 485. Computer Science Seminar (W) 1 hour

Prerequisite: CPTR 318 and 3 hours of CPTR credit numbered 319 or above.

Written and oral reports are made on specific topics treated in current computer science literature. (Spring)

CPTR 490. Topics in Computer Science

1-3 hours

Prerequisite: Permission of Computer Science staff.

Topics selected from areas of computer science not covered in other courses. May be repeated with permission to a maximum of six hours.

CPTR 295/495. Directed Study

1-3 hours

Prerequisite: Consent of instructor and department chair.

Individual or group work adjusted to meet particular needs of computer science students. May be repeated for credit up to six hours.

COMPUTER TECHNOLOGY

CPTE 101. Technology Awareness

2 hours

See TECH 101 for course description.

CPTE 147. Introduction to Architecture and Interiors

3 hours

An examination of the scope and interrelationships of the professions of architecture and architectural interiors. The role of the designer in society is discussed with consideration of the opportunities for pursuing a rewarding career. Students are introduced to components of the faculty, each describing his or her teaching area. Information sources in architecture are outlined and methods of collecting, structuring and presenting data and ideas are included. Field trips are made to professional offices, manufacturers, and significant buildings and interiors. Open to all students.

CPTE 251. Computer-Aided Design in Architecture

3 hours

Through tutorials, exercises, and projects the student gains working knowledge of the drafting and design capabilities of computer-aided design. Introduction to three-dimensional programs using DataCAD and other architectural programs.

CPTE 245/345. Computer-Aided Publishing (G-2)

3 hours

An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready documents without conventional paste-up and typesetting services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

CPTE 249/349. Computer-Aided Drafting (G-2)

3 hours

Prerequisite: TECH 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods of laboratory each week. Lecture as announced by the instructor. (Spring)

CPTE 376. Automation and Robotics

3 hours

Prerequisites: TECH 149, 183, 249/349 or equivalent.

Basic elements and principles of computer integrated manufacturing including terminology, computer hardware/software and interfacing, system integration, flexible manufacturing and robotic applications.

(G-2) See pages 51-55 for explanation of General Education requirements.

EDUCATION AND PSYCHOLOGY

Chair: George Babcock

Faculty: Fern Babcock, John Baker, Ben Bandiola, Diane Cooper, Jon Green, Carole Haynes, Helen Sauls, Jeanette Stepanske, Carl Swafford, Ruth Williams-Morris

Adjunct Faculty: Frank DiMemmo, Faculty of Collegedale Academy, Faculty of Spalding Elementary School, Henry Farr, LaVona Gillham, Gerald Kovalski, Rita Roark, Ann Steiner

1992/93 Teacher Education Advisory Council:

George Babcock, Chair; Vern Biloff, Diane Butler, Hamlet Canosa, Jim Epperson, Conrad Gill, Jon Green, Carole Haynes, Nathaniel Higgs, Gordon Klocko, Gerald Kovalski, Norwida Marshall, Barry Mahorney, Oster H. Paul, Mary Jayne Ries, Helen Sauls, Jeanette Stepanske, Don L. Weatherall, Ruth Williams-Morris, William Wright, Jr.

1992/93 Teacher Education Council:

George Babcock, Chair; John Baker, Ben Bandiola, Joyce Cotham, David Ekkens, Phil Garver, LaVona Gillham, Jon Green, Floyd Greenleaf, Jan Haluska, Carole Haynes, Michelle Krause, Philip Mitchell, Bob Moore, Dennis Pettibone, Mary Ries, Marvin Robertson, Kermise Rowe, Helen Sauls, Ron Springett, Jeanette Stepanske, Carl Swafford, Alton Whidden, William Wohlers

DEGREES OFFERED

BACHELOR OF ARTS DEGREE IN PSYCHOLOGY

Psychology has been a stand-alone major at Southern College for more than a decade, with graduates later pursuing study in such fields as marriage and family counseling, community and school counseling, school psychology, counseling and clinical psychology, and industrial and experimental psychology--as well as business, law, dentistry, and medicine. Statistical and simulation computer software have enhanced student research practice and training--with Apples, Model 4's, IBM's and compatibles, and campus terminals.

At Southern College--and elsewhere--the Psychology major is considered pre-professional. It is an undergraduate major in psychology which will serve as preparation for later study at the master's and doctoral degree levels. In order to improve one's chances for admission

psychology and general education courses, (b) take as many psychology electives as possible, along with statistics and computer science, (c) obtain a competitive score on graduate admission tests (usually the GRE) taken during the fall of the senior year, and (d) apply to 10 or more specific schools for graduate study.

Major: Thirty hours including PSYC 124, 128, 315, 384, 415, and 285/485. Cognate requirements are MATH 215 (with C- grade or above) and three hours each in biology and computer science.

Minor: Eighteen hours including PSYC 124, 128. Six hours of upper division are required for the minor in psychology.

Typical Sequence of Courses for B.A. PSYCHOLOGY

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
PSYC 124	Intro to Psychology	3		PSYC	Elective	3	3
PSYC 128	Developmental Psych		3	BIOL 103	Area E-1, Prin of Bio	3	
ENGL 101-102	College Composition	3	3		Area D-1, For Lang	3	3
RELB 125	Life & Teachings	3		RELB	Area B-1, Bibl Stud	3	
MATH 103	Survey of Math	3		MATH 215	Statistics (Cognate)	3	
HIST 174	World Civilization				Elective in Minor		3
	OR	3		ERSC 105	Earth Sci or Area-E		3
HIST 154	Amer Hist & Insti			SPCH 135	Area D, Intro to		
PEAC	Area G-3, Elective	1			Public Speaking		3
	Elective in Minor		3			15	15
PSYC 285	Psychology Practicum	1					
CPTR 105	Intro to Word Process	1					
CPTR 106	Intro to Spreadsheets	1					
CPTR 107	Intro to Data Base	1					
HIST 175	World Civilization						
	OR		3				
HIST 155	Amer Hist & Institu						
		16	16				
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
PSYC	UD Elective	2		PSYC	UD Elective	3	
PSYC 384	Experimental Psych	3			Elective in Minor	3	
PSYC 315	Abnormal Psych		3		UD Elective in Minor	6	
PSYC 415	Hist & Sys of Psych	3		RELT	UD Religion Elective	3	
PSYC 495	Directed Study	1			Electives		6
RELT	Religion Elective	3			UD Electives		7
	UD Electives	6		PSYC 485	Psychology Practicum	1	1
	Electives in Minor		3			16	14
	Areas G-1 or G-3						
	Electives	2					
	Area C-2, PLSC/ECON	3					
	Electives	3					
		16	16				

BACHELOR OF ARTS IN PSYCHOLOGY

Leading to Licensure K-8

While this degree program is open to anyone, it is required for all those who desire to teach Kindergarten and/or lower elementary grades.

Major (B.A.): Thirty-two hours including PSYC 124, 128, 217, 230, 233, 240, 315, 356, 377, 421, 434, and 485.

PSYC 124	Introduction to Psychology	3
PSYC 128	Developmental Psychology	3
PSYC 217	Educational Psychology	2
PSYC 230	Principles and Applications of Cognitive Development	2
PSYC 233	Human Sexuality	3
PSYC 240	Education for Exceptional Children and Youth	2
PSYC 315	Abnormal Psychology	3
PSYC 336	Language Acquisition and Development	2
PSYC 356	Tests and Measurements	2
PSYC 377	Fundamentals of Counseling	3
PSYC 421	Behavioral Management	2
PSYC 434	Research Design and Practices	3
PSYC 485	Psychology Practicum	2
TOTAL		32

The courses listed below must be taken, in addition to the major, to fulfill teacher licensure requirements. These courses also fulfill general education requirements as outlined:

AREA A	ENGL 101, 102; MATH 215	9
AREA B	RELB, 3 hours; RELB, 3 UD hours; RELT 138, 255	12
AREA C	HIST 154, 175, 356; GEOG 204	12
AREA D	Foreign language if less than 2 units earned in high school	0-6
	ART 230; MUED 231; SPCH 135; LIBR 325	10
AREA E	BIOL 103; CHEM 111; ERSC 105	9
AREA F	HLED 173, 203	4
AREA G	3 hours PEAC; PETH 463	5
	EDUC 135, 250, 426, 427, 432, 445, 453, 454, 459, 462, 465, 466	32

Typical Sequence of Courses for B.A. PSYCHOLOGY Leading to Licensure K-8

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	ERSC 105	Earth Science		3
EDUC 135	Intro to Education	3		HIST 154	American Hist & Inst	3	
PEAC	PE Activity Elective	1		PEAC	PE Activity Elective	1	
PSYC 124	Intro to Psychology	3		PSYC 233	Human Sexuality		3
RELT 138	Adventist Heritage	3		RELT 255	Christian Beliefs	3	
	Area D-1, Foreign Lang	3	3	SPCH 135	Intro to Pub Spkg	3	
BIOL 103	Prin of Biology		3	ART 230	Intro to Art Exper		2
HLED 173	Health and Life		2	CHEM 111	Survey of Chemistry	3	
HLED 203	Safety Education		2	EDUC 250	Technology in Ed		2
PSYC 128	Developmental Psych		3	HIST 175	World Civilizations		3
		16	16	PSYC 230	Prin & Appl Cog Dev		2
				PSYC 240	Tchg Except Ch & Yth	2	15
						15	15
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
GEOG 204	World Geography	3		EDUC 427	Current Issues in Ed	2	
LIBR 325	Library Mat Children	3		EDUC 445	Reading & Lang Arts	3	
MATH 215	Statistics	3		EDUC 453	Mathematics Methods	2	
PSYC 336	Lang Acq/Develop	2		PETH 463	PE in Elem School	2	
PSYC 356	Tests & Measurements	2		PSYC 421	Behavior Management	2	
RELB	Elective	3		RELB	Elective		3
HIST 356	Natives & Strangers		3	EDUC 426	Kindergarten Methods		3
MUED 231	Music and Movement		2	EDUC 432	Reading in Content		2
PEAC	PE Activity Elective		1	EDUC 454	Science & Health		2
PSYC 217	Educational Psych		2	EDUC 459	Bible & Soc Studies		3
PSYC 377	Foundations of Counsel		3	EDUC 462	Organization & Ldrshp		1
PSYC 485	Psychology Practicum		1	EDUC 463	Small Schools Seminar		1
PSYC 315	Abnormal Psychology		3	PSYC 434	Research Design & Prac		3
		16	15	PSYC 485	Psychology Practicum	14	16
				<u>YEAR 5</u>			
				EDUC 466	Enhanced Student Tchg	8	

B.S. IN SOCIAL SCIENCE Leading to Licensure 1-8 (With Language Arts Emphasis)

This degree program is required for those who desire to teach the middle and upper elementary grades. However, the program is open to anyone.

Major (B.S.): Forty-one hours including ENGL 214, 218, 313 or 314, 315, Elective in Literature; HIST 155, 356; LIBR 325; PSYC 124, 128, 230, 240, 336, 356, 421, and 462.

ENGL 214	Survey of American Literature	3
ENGL 218	Grammar and Usage	3
ENGL 315	Introduction to Linguistics	3
ENGL	Literature Elective (upper division)	3
ENGL 313	Expository Writing	
OR		3

ENGL 314	Creative Writing	
HIST 155	American History and Institutions	3
HIST 356	Natives and Strangers	3
LIBR 325	Library Materials for Children	3
PSYC 124	Introduction to Psychology	3
PSYC 128	Developmental Psychology	3
PSYC 230	Principles and Application of Cognitive Development	2
PSYC 240	Eudcation for Exceptional Children and Youth	2
PSYC 336	Language Acquisition and Development	2
PSYC 356	Tests and Measurements	2
PSYC 421	Behavior Management	2
PSYC 462	Organization and Leadership	1
		TOTAL 41

The courses listed below must be taken, in addition to the major, to fulfill teacher licensure requirements. These courses also fulfill general education requirements as outlined:

AREA A	ENGL 101, 102; MATH 103	9
AREA B	RELB, 3 hours; RELB, 3 UD hours; RELT 138, 255	12
AREA C	HIST 154, 175; GEOG 204	9
AREA D	ART 230; MUED 231; SPCH 136	7
AREA E	BIOL 103; CHEM 111; ERSC 105	9
AREA F	SOCI 233; HLED 173, 203	7
AREA G	3 hours PEAC; PETH 463	5
EDUC 135, 217, 250, 427, 432, 445, 453, 454, 459, 463, 467		30

**Typical Sequence of Courses for
B.S. IN SOCIAL SCIENCE
Leading to Licensure 1-8
(Language Arts Emphasis)**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	EDUC 217	Educational Psychology	2	
BIOL 103	Prin of Biology	3		ENGL 214	Survey of American Lit	3	
EDUC 135	Intro to Education	3		ERSC 105	Earth Science		3
PSYC 124	Intro to Psychology	3		HIST 154	American History	3	
RELT 138	Adventist Heritage	3		RELT 255	Christian Beliefs	3	
ART 230	Intro to Art Exper		2		General Ed Elective	2	
HIST 175	World Civilizations		3	CHEM 111	Survey of Chemistry	3	
HLED 173	Health and Life		2	GEOG 204	World Geography		3
PSYC 128	Developmental Psych		3	HIST 155	American Hist & Inst		3
SPCH 136	Interpersonal Commun		3	HLED 203	Safety Education		2
		15	16	PEAC	PE Activity Elective		1
				SOCI 233	Human Sexuality		3
						16	15

EDUCATION AND PSYCHOLOGY

YEAR 3

		Semester	
		1st	2nd
ENGL 218	Grammar and Usage	2	
LIBR 325	Library Mat for Child	3	
MATH 103	Survey of Math	3	
MUED 231	Music and Movement	2	
PEAC	PE Activity Elective	1	
PSYC 230	Prin & Appl Cog Dev	2	
PSYC 336	Lang Acq & Developmnt	2	
EDUC 250	Technology in Ed	2	
ENGL 315	Intro to Linguistics	2	
ENGL 313	Expository Writing		
	OR	3	
ENGL 314	Creative Writing		
PEAC	PE Activity Elective	1	
PSYC 240	Tchg Except Child & Youth	2	
PSYC 356	Tests & Measurements	2	
RELB	UD Elective	3	
		15	15

YEAR 4

		Semester	
		1st	2nd
EDUC 427	Current Issues in Ed	2	
EDUC 445	Reading & Lang Arts	3	
EDUC 453	Mathematics Methods	2	
PETH 463	PE in Elem School	2	
PSYC 421	Behavior Management	2	
RELB	UD Elective	3	
EDUC 432	Reading in Content		2
EDUC 454	Science & Health		2
EDUC 459	Bible & Social Studies		3
EDUC 463	Small Schools Seminar		1
ENGL	Literature Elective		3
HIST 356	Natives & Strangers		3
PSYC 462	Organization & Ldrship		1
		14	15

YEAR 5

EDUC 467	Enhanced Student Tchg	8	
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Education Minor: Eighteen hours including EDUC 135, 217, and 240, and six hours of upper division courses. This minor does not automatically lead to either elementary or secondary certification, both of which require a baccalaureate degree and completion of professional education courses for licensure. See explanations beginning on page 149.

TEACHER EDUCATION PROGRAMS

Southern College has approved teacher certification programs in three levels:

K-8

B.A. in Psychology Leading to Licensure

1-8

B.S. in Social Science Leading to Licensure (Language Arts Emphasis)

K-12

Health/Physical Education

Music Education

7-12

Bible Education

Business Education with cluster endorsements in:

Accounting

Basic Business

Data Processing

Office Technology

Biology Education

Chemistry Education

English Education

History Education

Mathematics Education

Physics Education

Philosophy and Objectives

The Department of Education and Psychology is the unit duly authorized to prepare teachers who meet certification requirements for public, church related, and other private elementary and secondary schools.

The unit subscribes to the philosophy that man was created in the image of God but as a result of willful disobedience sin has marred his God-given attributes and divine likeness. This philosophy recognizes that the object of education is also the object of redemption--to restore in man the image of his maker and bring him back to the perfection in which he was created. Thus the work of redemption is also the work of education, involving the development of the whole person--physical, mental, spiritual, and social.

The teacher education programs in the unit are founded upon the basic assumption that there is a body of information, research, and practice that make up the knowledge base for the teaching profession and that acquisition of this knowledge is a significant part of the teacher's preparation. The unit further confirms the belief that a teacher should be a good example in health, intellect, and character. This program of teacher education is guided by the following statement of mission:

Statement of Mission

The mission of the Department of Education at Southern College of Seventh-day Adventists is to prepare, primarily for the Seventh-day Adventist school system, professional educators who can function effectively in a culturally pluralistic society and who are dedicated to assisting students in reaching their maximum potential in service to God and man.

Objectives of the Teacher Education Program

The teacher education program at Southern College of Seventh-day Adventists is designed to help the teacher candidate develop personal values and acquire the knowledge, skills, and competencies needed to function effectively in the teacher's role as a person, a facilitator of learning, a practitioner, and a professional.

The Teacher As a Person

To promote the personal development of the prospective teacher (which includes physical, aesthetic, intellectual, and moral values) by guidance and advisement through general education which results in:

1. an understanding, appreciation, and enjoyment of man's creative activity in the humanities, social, and natural sciences;
2. a development of personal values that recognize our pluralistic cultural heritage as well as individual worth and integrity and brotherhood of mankind under God;
3. the ability to communicate ideas clearly and effectively in reading, writing, speaking, and listening;
4. an appreciation of the value of health and the importance of health practices in home and family life.

The Teacher As a Facilitator of Learning

To provide a set of educational experiences that will enable the teacher candidate to master the skills in:

5. planning curriculum encounters with learners with appropriate materials and instructional strategies;
6. identifying learning objectives at appropriate levels;
7. using diagnostic and evaluation strategies;
8. handling classroom management and reinforcement strategies;
9. applying principles of human growth and development and theories of learning to classroom situations;
10. integrating faith and learning, along with emphasizing character development;
11. recognizing and encouraging creativity and the maximum possible development of student abilities.

The Teacher As a Practitioner

To maintain a learning environment that is conducive to acquiring the knowledge, skills and competencies that characterize successful practitioners through:

12. enhancement of positive attitude toward self, intellectual curiosity, and independent critical thinking;
13. continuing experimentation and innovation with new pedagogical practices and basic tools of learning;
14. utilization of translatable research;
15. on-campus instruction and off-campus field experiences in public and private schools.

The Teacher As a Professional

To provide a social-emotional climate and opportunities for the development of leadership skills while encouraging attitudes and experiences that foster professional growth by:

16. participating actively in the campus student education association;
17. becoming familiar with the professional organizations and their journals and the nature of the articles reported in them;
18. keeping abreast with developments in education, school reform and legislation;
19. participating in activities that enhance church, home, and community relationships;
20. demonstrating a genuine interest and concern for the physical, mental, social, and spiritual development of the learner.

Advisement

The major goal of the advisement process is to orient the teacher candidate with the total teacher education program, with major emphasis on its three components, namely, general education, professional education, and specialty studies. This is accomplished by the academic advisor as s/he interacts with his/her advisees during advisement sessions.

Requirements

I. ADMISSION PROCEDURES

Admission to Southern College does not automatically enroll the student to teacher education. There are three stages that students must go through to be fully vested in the teacher education program.

A. Initial Admission to the Teacher Education Program

Each student accepted at Southern College who indicated that teaching is his/her professional objective is assigned an educational program advisor by the Chair of the Department of Education and Psychology in cooperation with the advisement coordinator in the Records Office. The advisors assist in planning a student's academic program each year and guide their advisees through the stages of the teacher education program. Advisors and advisees should work closely to follow the professional sequence of courses. Students assume responsibility for making necessary applications, meeting the requirements, and other relevant deadlines.

The first semester of the sophomore year but not later than the second semester of the sophomore year, the student should file a formal application for initial admission to the teacher education program. Application forms may be obtained from the department secretary at Summerour Hall. Transfer students wishing to enter the Teacher Education Program should file an

application after the first year in residence. Upon application, a file is set up for each applicant containing relevant information to the student's candidacy. To be fully admitted, all the following criteria must be met:

1. Be in residence at the College.
2. Submit an autobiography in your own handwriting containing anecdotal information on why you decided to pursue a career in teaching.
3. Have an overall grade point average of 2.50.
4. Have completed ENGL 101-102 with a minimum grade of C-.
5. Show evidence of physical, mental, and moral fitness.
6. Have successfully completed EDUC 135 with a minimum grade of C-.
7. Have passed the Pre-Professional Skills Test (PPST) which is the entrance competency test required by the State of Tennessee.
8. Have taken the 16 Personality Factor Test.
9. Have obtained recommendations from the Dean of Students and the Department in which the student is enrolled.

Applicants meeting the above criteria are recommended by the Education faculty to the Teacher Education Council. The student will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.

B. Candidacy and Retention in Teacher Education

After the applicant has been admitted to the teacher education program, his/her progress will be reviewed by the Candidacy Committee, consisting of the Adviser, a departmental representative, and one person from the practicing profession. As a teacher candidate, the applicant will be given an opportunity to interact with the Candidacy Committee in a non-threatening atmosphere. During the interview the candidate can strengthen his/her commitment to teaching or express his/her concerns and questions about the teaching profession.

Retention in the teacher education program is contingent on successful completion of courses attempted and maintenance of the academic standard required for initial admission to the program. Teacher candidates are expected to maintain consistent personal representation of the standards and objectives of Southern College and the teacher education program.

C. Authorization to do Student Teaching

During the first semester of the senior year, the teacher candidate must file a formal application with the Chair of the Department of Education and Psychology for authorization to do student teaching. Application forms may be obtained from the department secretary at Summerour Hall. A later application may delay the student teaching experience. Student teaching is regarded as the culminating experience of the Teacher Education Program.

The following criteria are considered for each applicant:

1. Completion of all professional education courses
2. Cumulative GPA of 2.50
Major Studies GPA of 2.50
Professional Education GPA of 2.50
3. Evidence of good physical and mental health
4. Adherence to standards and objectives of Southern College and the Teacher Education Council

Teacher candidates who meet the above criteria are recommended by the Education faculty to the Teacher Education Council. Candidates are informed in writing as to the status of their application following the action of the Teacher Education Council.

II. APPEAL PROCEDURES

Criteria and standards for admission to teacher education are explicit, but allow for second chance attempts. Courses may be repeated to raise GPA or students may follow the Grievance Procedures found under Academic Policies (page 68). Also, students who do not meet all the criteria required to do Student Teaching may appeal to the Appeals Committee. The applicant who has to take this alternative route will be evaluated on the bases of eminence and outstanding strengths in several other criteria rather than minimal meeting of those criteria. The Appeals Committee makes recommendation to the Teacher Education Council who determines the final action. Any applicant who determines to follow this alternative policy must seek council from the Chair of the Department of Education and Psychology.

Teacher Certification

Certification is the process of granting legal authorization to teach in the public or private elementary or secondary schools of a state or of the Seventh-day Adventist Church based on meeting predetermined qualifications. Certification has been established to give professional

status to qualified teachers and to assure school boards and parents that the teacher is well prepared.

Who can obtain certification?

Every student who successfully completes the requirements for teaching in the elementary or secondary school and graduates from Southern College will receive recommendation for certification based upon the following criteria:

- A. Successful completion of student teaching assignment
- B. Satisfactory completion of all credential requirements
- C. Recommendation of major departments
- D. Satisfactory score on the core battery and appropriate specialty area of the National Teacher Examination
- E. Approval of the Teacher Education Council

Certification is not automatic. The eligible candidate must make the necessary application to the appropriate union conference for denominational certification and to the specific state department of education where the candidate expects to teach. Information regarding certification is available through the certification officer. Since teacher certification regulations are always in the process of change, graduating teacher education candidates are urged to make their applications for certification immediately. If the candidate does not make application within two years for denominational certification, or within five years for Tennessee State certification, s/he will have to take additional courses before certification can be issued.

What certificates may be obtained?

- A. Teacher's Certificate (Tennessee)

A certificate is issued on the basis of a minimum of a Bachelor's Degree with a major in at least one subject teaching field and the completion of an approved teacher education program.

- B. Basic Certificate (SDA denominational)

Required by the Department of Education of the North American Division of Seventh-day Adventists. This three-year denominational certificate is issued on the basis of completing the following courses in addition to the above requirements:

RELT 255 Christian Beliefs	3 hours
RELT 138 Adventist Heritage	3 hours
RELB Biblical Studies	6 hours
HLED 173 Health and Life	2 hours

Requirements for Certification

Candidates for state certification must complete the appropriate teacher preparation curriculum. This consists of three components: general education, professional education, and major studies.

A. General Education:

This component represents that portion of the total teacher education program designed to foster the development of those competencies that are basic to all life's responsibilities and provide intellectual foundation in the liberal arts. Students pursuing a teacher education curriculum must work closely with their advisors for guidance in the selection of general education courses that are appropriate to their individual needs. Relevant courses are listed in this catalog under the seven main areas of the general education requirements, pages 51-55.

B. Professional Education:

Elementary: Elementary Education courses are included with the degree requirements listed on pages 140-142 of this catalog.

Secondary: The following courses are required for secondary teaching certification. In order to be eligible for certification, students must have a minimum grade point average of 2.50 in the major, professional education, and cumulative.

EDUC 135	Intro to Education	3 hours
EDUC 217	Psychological Foundations of Education	2 hours
EDUC 240	Education for Exceptional Children and Youth	2 hours
EDUC 250	Technology in Education	2 hours
EDUC 356	Tests and Measurements	2 hours
EDUC 421	Behavioral Management	2 hours
EDUC 427	Current Issues in Education	2 hours
EDUC 432	Reading in Content	2 hours
EDUC 438	Curriculum and Content Methods	2 hours
EDUC 462	Organization and Leadership	1 hour
EDUC 468	Enhanced Student Teaching	<u>8 hours</u>
TOTAL		28 hours

C. Major Studies:

Major studies requirements: Preparation for teaching in the elementary school requires a B.A. in Psychology with licensure K-8 or a B.S. in Social Science leading to licensure 1-8. See listing of course sequence on pages 140-142 of this bulletin.

The following departments offer majors that can be combined with professional education courses resulting in licensure to teach:

Biology	History
Business	Mathematics
Chemistry	Music
Education & Psychology	Physics
English	Religion
Health/Physical Education	

Students are to complete the degree requirements as specified by their chosen major plus the professional education courses as listed under B above.

D. Miscellaneous Information Relative to Teacher Training:

1. Because of time commitments during the student teaching experience, no additional courses may be taken.

The Education faculty will endeavor to provide the opportunity for student teachers to teach in off-campus student teaching centers.

It is expected that any student entering student teaching will have completed all other courses.

2. Correspondence credit will be accepted to the extent of one-fourth of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the Department of Education and Psychology and its approval obtained before registering for the course. The course must be completed and the grade filed in the Records Office before student teaching is begun.
3. A major is not always required for additional endorsements. A minor may be acceptable as a second field for SDA certification.
4. Students should contact the Department of Education and Psychology for information on specific requirements in the area(s) of endorsement sought.

**1. PROGRAM FOR ELEMENTARY ENDORSEMENT
FOR INDIVIDUALS MEETING REQUIREMENTS
FOR SECONDARY CERTIFICATION**

Eighteen semester hours listed below are required. A minimum of 12 semester hours from these courses must be completed after the date the applicant became eligible for the original certificate endorsed in a subject area in grades 7-12 or in a subject area in grades K-12. Grades must be C- or better.

A. Required Courses:

EDUC 445	Reading and Language Arts	3
EDUC 453	Mathematics Methods in the Elementary School	2
EDUC 459	Bible and Social Studies Methods	3

B. Six semester hours to include two of the following three areas:

ART 230	Intro to Art Experiences	2
EDUC 454	Science and Health Methods in the Elementary School	2
MUED 231	Music and Movement	2
PETH 463	Physical Education in the Elementary School	2

C. Two semester hours must be in Education of Exceptional Children if not previously successfully completed. If Education of Exceptional Children or any of the above required courses in Section A or Section B have been previously completed, the remaining semester hours must be taken from the following courses:

- | | |
|--------------------------|--------------|
| a. Children's Literature | c. Health |
| b. Tennessee History | d. Geography |

D. Two to three semester hours of student teaching.

2. PROGRAMS FOR SECONDARY ENDORSEMENT
FOR INDIVIDUALS MEETING REQUIREMENTS
FOR ELEMENTARY EDUCATION CERTIFICATION

Ten semester hours of credit after the date the original certificate was earned. Six semester hours of the ten must be in specialized professional education appropriate to grades 7-12 and must include a minimum of 2 semester hours of appropriate methods. The credit for at least one area of endorsement in grades 7-12 may have been earned at any time prior to the application for adding the endorsement. **Grades must be C- or better.**

1. Meet the State of Tennessee requirements for endorsement in at least one teaching field (this will vary from 18 to 51 hours).
2. A minimum of six semester hours of professional education including:
 - A. EDUC 437 or EDUC 438.
 - B. Any other courses designated by the Department of Education and Psychology.
3. Four semester hours of electives.

**3. APPROVED PROGRAM IMPLEMENTATION
BY STATE BOARD OF EDUCATION**

Procedures for securing Southern College's recommendation for state certification of students from institutions located out of the state:

1. Application is made to the teacher certification officer through the Records Office accompanied by an official transcript and a recommendation from the applicant's school.
2. Assessment of deficiencies will be made by the Teacher Certification Officer and approved by the Department of Education and Psychology.
3. The Teacher Certification Officer will inform the applicant of any deficiencies.
4. A fee of twenty-five dollars (\$25) will be charged for this service, to be refunded upon completion of courses at Southern College.

Note: Asterisks denote courses that will be eliminated as the new program is phased in.

EDUCATION

EDUC 134. Principles of Christian Education

2 hours

An overview of the purposes, administrative organizations and operations of school systems, identified as Christian in purpose, with particular emphasis on the Seventh-day Adventist educational system.

EDUC 135. Introduction to Education

3 hours

Required of all students seeking elementary or secondary licensure. Designed to acquaint the student with the experiences, qualifications, and duties of the classroom teacher. Students will spend at least twenty hours during the semester observing and participating in local elementary or secondary classrooms. Class discussion will include: teaching as a profession, history of education, and philosophy and aims of Seventh-day Adventist and public education.

EDUC 217. Psychological Foundations of Education (F-1) 2 hours

A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching. Observation and analysis of appropriate child and adolescent behaviors are incorporated in the class activities.

EDUC 240. Education for Exceptional Children and Youth 2 hours

A course in the education of exceptional children in the regular classroom. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth by the classroom teacher and the consequent classroom implications.

EDUC 250. Technology in Education (G-2) 2 hours

An introduction to applications of technology which will assist in efficient management and effective learning within the school environment. Experience will be gained in the development and use of audio-visual materials including computers and educational software.

EDUC 332. Teaching of Reading 2 hours

Prerequisite: Admission to Teacher Education.

Survey of the materials and methods used in teaching reading in the elementary grades. It emphasizes the approaches to teaching reading including phonics instruction. The course involves approximately three hours of supervised practicum along with one hour of lecture each week. (Fall)

EDUC 333. Developmental Reading (W) 2 hours

Prerequisite: EDUC 332 and Admission to Teacher Education.

A detailed study of the development of vocabulary, comprehension, and study/reference skills in the elementary grades. Causes of reading problems, assessment procedures, and organization of a sound reading program are stressed. Observation and assessment including diagnosis and prescriptive remediation of selected students required. (Spring)

EDUC 356. Tests and Measurements 2 hours

Prerequisite: Admission to Teacher Education or permission of the department chair.

An evaluation of classroom learning and teacher-made tests as well as an overview of selected ability, achievement, interest, and personality tests. Principles of effective test construction and selection are studied, particularly as they apply to sampling, validity, reliability, and norming. In addition to theory, twenty (20) hours of clinical and field experiences are required.

EDUC 421. Behavior Management 2 hours

Examines basic principles of discipline, reviews a variety of philosophical approaches to discipline, and identifies and role plays practical procedures for administrators and practitioners by which to attain and maintain acceptable management practices. In addition, the course seeks to probe the concept of discipline as a way of life in which the individual is assisted in developing a satisfactory and fulfilling lifestyle. This course requires 15 hours of clinical experiences and five (5) hours of relevant experiences. (Credit not permitted if PSYC 421 has been taken.)

EDUC 426. Kindergarten Methods 3 hours

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education.

Designed to give the student an understanding of administration, program planning, materials, and strategies for teaching in preschool. Emphasis is given to application of the principles of child development and learning to promote harmonious physical, mental, social, and emotional growth. Observation and participation required.

EDUC 427. Current Issues in Education (F-1), (W) 2 hours

Prerequisite: Admission to Teacher Education.

An analysis of social and philosophical forces influencing American education today, with special emphasis on the schools as social institutions. (Not open to students who already have credit for EDUC 425.)

EDUC 432. Reading in Content 2 hours

Prerequisite: Admission to Teacher Education.

This course will help teachers focus on those reading skills essential for the needs of each student in the content area. It will include modeling the process necessary for reading and learning concepts in a subject area and instructing students so they can become independent learners. The program elements with procedures will be applied in classroom settings.

***EDUC 437. Curriculum and General Methods, Grades 7-12 2 hours**

Prerequisite: Admission to Teacher Education.

This course will include the secondary curriculum content-factors that influence change, the most important current practices, and critical curriculum issues facing educators today. It will provide general knowledge of current teaching methods, strategies of learning, and evaluation procedures, as set forth in the Tennessee Institutional Model. Ten hours of field-based experience in special education and multi-cultural education are required.

EDUC 438. Curriculum and Content Methods, Grades 7-12 2 hours

Prerequisite: Admission to Teacher Education.

The areas which offer methods courses are: Art, Bible, Business (Office Administration), English, Health and Physical Education, History, Mathematics, Music, Science (Biology, Chemistry, and Physics).

Directed observation in selected schools and attendance at local professional meetings are considered part of this course.

Among the student's responsibilities will be the collection and organization of a file of teaching materials, the preparation of lesson plans in harmony with the Tennessee Instructional Model, and evaluation of textbooks. Directed observation in selected schools and attendance at selected local professional meetings are considered a part of the course.

EDUC 443. Classroom Competencies 3 hours

Prerequisite: Admission to Teacher Education and completion of at least two upper division methods courses.

This course provides opportunity for the student to develop skills and knowledge related to concepts of classroom organization, instructional techniques, and teaching styles. Emphasis is given to the management of multi-grade classrooms, effective teacher research, and classroom discipline techniques.

EDUC 445. Teaching Reading and Language Arts 3 hours

Prerequisites: EDUC 135, 217, 240, and admission to Teacher Education.

Survey of the materials and methods used currently in teaching reading and language arts. Strategies for instruction in writing, spelling, listening, grammar, composition, literature, and reading are developed. Observation and micro-teaching required.

EDUC 453. Mathematics Methods in the Elementary School 2 hours

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, materials, methods, and instructional aids with emphasis on multi-grade classrooms. Attention is given to the sequential skill development and to changes in the mathematical contents, technology and pedagogy. Observation and micro-teaching required.

EDUC 454. Science and Health Methods in the Elementary School 2 hours

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, methods, materials and equipment with emphasis on multi-grade classrooms. Techniques and materials are examined using basic principles of the scientific method. Observation and micro-teaching required.

EDUC 455. Bible Methods in the Elementary School 2 hours

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education. For students graduating under catalogs prior to 1991-92: EDUC 125, 134, 217, 240.

A course to develop teaching objectives, materials, and strategies in Biblical education with emphasis on the Christ-centered curriculum and integration of faith and learning. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required.

EDUC 456. Language Arts Methods in the Elementary School 2 hours

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education. For students graduating under catalogs prior to 1991-92: EDUC 125, 134, 217, 240.

Curriculum organization, methods, materials, and instructional aids with emphasis on multi-grade classrooms. Strategies for instruction in writing, spelling, grammar, literature, and composition are developed. Observation and micro-teaching required. (Spring)

EDUC 457. Social Studies Methods in the Elementary School 2 hours

Prerequisites: EDUC 135, 217, 240 and admission to Teacher Education. For students graduating under catalogs prior to 1991-92: EDUC 125, 134, 217, 240.

A course to develop teaching objectives, instructional strategies, materials, and methods when integrating social studies, geography, and the worldwide mission of the church. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required. (Spring)

EDUC 459. Teaching Bible and Social Studies 3 hours

Prerequisites: EDUC 135, 217, 240.

This course is designed to relate social studies and Bible content, curriculum development, teaching strategies, and teaching theory with actual practices. Special emphasis is given to the development of inductive lessons in the multi-grade classroom.

EDUC 460. Practicum in Special Education **1 hour**

Provides opportunity for the prospective teacher to develop appreciation for children who require special modalities for learning. Field experiences will permit interaction with students with various exceptionalities.

EDUC 461. Practicum in Multicultural Education **1 hour**

A course designed to develop a global perspective in the teacher. Opportunities will be given for interaction in an educational setting with students from varied cultural and minority groups. Adaptation of teaching methods and content to students' backgrounds will be prominent in the field experiences.

EDUC 462. Organization and Leadership **1 hour**

Required by all teacher education candidates. Topics will include: Legal and Ethical Aspects, Financing, The Role of the School Board, and Governance and Administration in Schools. These topics will cover both public and Seventh-day Adventist perspectives.

EDUC 463. Small Schools Seminar **1 hour**

Required of all candidates seeking licensure K-8 or 1-8. Topics will include the specialized needs of the multi-grade teacher in administration, record keeping, curriculum management, and organization in small schools.

EDUC 465. Pre-Session Student Teaching **2 hours**

Prerequisites: Admission to Professional Semester.

This course is offered for qualified students needing experience in the "start up" dynamics of elementary and secondary programs. It involves 80 clock hours of on-site work with a qualified supervising teacher for one week prior to the fall semester through the first week of school. In consultation with the director of practice teaching, students are required to arrange for their own placement and submit a course application to the Education department office by May 1.

EDUC 466. Enhanced Student Teaching K-8 **8 hours**

Prerequisite: Completion of all other requirements for the B.A. in Psychology with licensure K-8.

Designed as a full-time practicum for one semester. Students are placed for part of the semester in a kindergarten setting. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with Southern College faculty, who assume responsibility for the final summative evaluation. No other courses may be taken during student teaching.

EDUC 467. Enhanced Student Teaching 1-8 **8 hours**

Prerequisite: Completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed in a different classroom each nine-week period. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. No other classwork may be taken during student teaching.

EDUC 468. Enhanced Student Teaching 7-12 8 hours

Prerequisite: Completion of all other requirements in the student's major program of studies.

Designed as a full-time practicum for one semester. Students are placed in a different classroom for each nine-week period. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. Students may not be enrolled in any other classwork during this semester.

EDUC 475. Workshop in Education (Methodology) 1-3 hours

Experienced teachers are given opportunity to work under supervision on curriculum problems. Credit is also available for preservice students as an elective.

EDUC 485. Workshop in Education (Content) 1-3 hours

Experienced teachers are given opportunity to develop new skills and gather new facts in content fields at various levels. Credit is also available for preservice students as an elective.

EDUC 295/495. Directed Study 1-2 hours

Prerequisite: Admission to Teacher Education.

This course permits the advanced student with adequate preparation to pursue independent study in special fields. This course may be repeated for credit.

PSYCHOLOGY

PSYC 124. Introduction to Psychology (F-1) 3 hours

A beginning course in the basic principles and concepts of psychology. Special attention is given to provide an exposure to a wide variety of human behaviors, which may include but are not limited to: sensation, perception, learning, memory, thinking, development motivation and personality. Included in this course are twenty hours of active learning experience, which may include field experiences outside the classroom.

PSYC 128. Developmental Psychology (F-1) 3 hours

A study of life from prenatal through the adult years. Emphasis is placed on the emotional, social, physical, and psychological development of the individual. This course requires five hours of field experience. The choices of field experience facilities may be limited due to the number of students enrolled in the semester.

PSYC 217. Psychological Foundations of Education (F-1) 2 hours

A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching. (Credit not permitted if EDUC 217 has been taken.)

PSYC 224. Social Psychology (F-1) 3 hours

A study of human behavior as affected by group living. Dynamics of groups, social roles, communication, and mass behavior are focuses of consideration. Credit applicable for either psychology or sociology emphasis, but not for both.

PSYC 230. Principles and Application of Cognitive Development 2 hours

Prerequisites: PSYC 124, EDUC 217, or permission of instructor.

A study of the psychological process by which humans acquire knowledge. Perception, reasoning, problem solving, and language skills will be analyzed. Emphasis will be placed on the applications of cognitive processes to the teaching/learning environments. The practical application of the knowledge learned from cognitive theories is applied to teaching and ten hours of clinical experience is required.

PSYC 233. Human Sexuality (F-1 or F-2) 3 hours

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting. (Credit not permitted if SOCI 233 has been taken.)

PSYC 240. Psychology of Exceptional Children and Youth 2 hours

A survey of exceptional children and youth. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth, and the educational and caretaking consequences.

PSYC 315. Abnormal Psychology (F-1) 3 hours

Prerequisite: PSYC 124 or 128.

A study of the etiology of pathological behavior and the factors of good adjustment and mental health. Attention is paid to several continuing or recent controversial issues in the field of psychopathology. Included in this course are twenty hours of active learning experiences, ten of which may include field experiences outside the classroom.

PSYC 326. Physiological Psychology 3 hours

Prerequisite: Three hours in Biology.

This course focuses on the physiological substrates of behavior. Specific attention is given to the physiological basis of learning and motivation, sensation, emotion, neural encoding, and sleep. Further analysis of the structural and functional organization of the brain and nervous system. (Taught in alternate years)

PSYC 336. Language Acquisition and Development 3 hours

Prerequisite: PSYC 124 or 128.

A study of the major theories of language acquisition, with emphasis on language development beginning at birth and extending through middle childhood. This course incorporates ten hours of active learning experiences, five hours of which require field experiences outside the classroom.

PSYC 349. Aging and Society (F-1) (W) 3 hours

See SOCI 349 for course description.

PSYC 356. Tests and Measurements 2 hours

An evaluation of classroom learning and teacher-made tests as well as an overview of selected ability, achievement, interest, and personality tests. Principles of effective test construction and selection are studied, particularly as they apply to sampling, validity, reliability, and norming. In addition to theory, twenty hours of clinical and field experiences are required. (Credit not permitted if EDUC 356 has been taken.)

PSYC 367. Adolescent Psychology (F-1) 2 hours

The determinants and implications of behavioral characteristics and developmental patterns during adolescence. Content will include the psychological and social dynamics underlying the attempted resolution of crises and tasks specific to adolescents in modern society. (Taught in alternate years)

PSYC 377. Fundamentals of Counseling (F-1) (W) 3 hours

Recommended: One course in Psychology.

This is an introduction to the major theories and practices of individual counseling. The dynamics of the helping relationship are analyzed. In addition to theory, twenty hours of clinical and field experiences are required.

PSYC 384. Experimental Psychology 3 hours

This course is designed to introduce the student to the principles and practices of experimentation in the field of psychology. Specifically, this course focuses on the true experiment. In addition, it will familiarize the student with the quasi experiment and the issues involved in the use of human and animal subjects in research. (Taught in alternate years.)

PSYC 415. History and Systems of Psychology (F-1) (W) 3 hours

Prerequisite: PSYC 124.

Philosophical and historical backgrounds of psychology leading to a consideration of contemporary schools and systems of psychology.

PSYC 421. Behavior Management 2 hours

Examines basic principles of discipline, reviews a variety of philosophical approaches to discipline, and identifies and role plays practical procedures for administrators and practitioners by which to attain and maintain acceptable management practices. In addition, the course seeks to probe the concept of discipline as a way of life in which the individual is assisted in developing a satisfactory and fulfilling lifestyle. This course combines and requires fifteen hours of clinical experiences and five hours of relevant experiences. (Credit not permitted if EDUC 421 has been taken.)

PSYC 434. Research Design and Practice (W) 3 hours

Prerequisite: MATH 215 or permission of instructor.

A survey of various methods and procedures in research as applied to the fields of education and psychology. Emphasis will be placed on defining and delimiting a problem, writing hypothesis and planning for the analysis of data using appropriate statistical design. Computer-aided analyses of simulations and practice exercises will be used.

PSYC 462. Organization and Leadership 1 hour

See EDUC 462 for course description.

PSYC 465. Topics in Psychology (F-1) 3 hours

Selected topics in psychology as chosen from such areas as: group dynamics, psychological assessment, individual differences, psychology of women, sensation and perception, etc. This course may be repeated for credit with an appropriate change in topics.

PSYC 285/485. Psychology Practicum 1-2 hours

Prerequisite: Approval of instructor.

Supervised volunteer/work experience in related fields of psychology. At least forty clock hours of work experience are required for each semester hour of credit. Practicum arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. No more than four hours of practicum may be applied toward a degree for psychology majors, of which two hours must be upper division, or minors only.

PSYC 295/495. Directed Study 1-2 hours

Prerequisite: Approval by department.

This course permits the student with adequate preparation to pursue independent study in special fields. The area of study will appear on the transcript. Directed study arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. May be repeated for credit.

(F-1), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

ENGINEERING STUDIES

Chair: Lawrence Hanson
Faculty: John Durichek, Henry Kuhlman

Southern College offers the first two years of a baccalaureate degree in engineering. Upon completing the two-year engineering studies program, students transfer to the Walla Walla College School of Engineering, with which Southern College is affiliated, for the final two years. Southern College awards an Associate of Science degree in Engineering Studies. Walla Walla College, located in Washington State, awards a Bachelor of Science in Engineering degree with concentrations in civil, electrical, and mechanical engineering and a pre-professional Bachelor of Science degree in bioengineering.

The WWC School of Engineering offers a high quality program that is fully accredited by the Accreditation Board for Engineering and Technology--the only nationally recognized organization which accredits engineering programs. It has an enrollment of approximately 250 students, many of whom are transfer students from affiliated Seventh-day Adventist colleges.

The Southern College affiliation with Walla Walla College makes the transition to the final two years of the baccalaureate engineering program essentially the same as if the first two years were taken there. Even though transfer to Walla Walla College is simpler than to a non-affiliated school, the Southern College engineering studies program is compatible with baccalaureate engineering programs of most colleges and universities.

PROGRAM IN ENGINEERING STUDIES

Major (A.S.): Thirty-three hours consisting of ENGR 149, 150, 211, 212; MATH 181, 182, 200, 218; PHYS 211-212, 213-214, 311-312. Required cognates: CHEM 151-152; CPTR 131.

Typical Sequence of Courses for A.S. ENGINEERING STUDIES

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101	College Composition		3	ENGR 211-212	Engineering Mech		3
ENGR 149	Mechanical Drawing		2	MATH 218	Calculus III		3
ENGR 150	Computer-Aided Draft		3	MATH 315	Diff Equations***		3
CHEM 151,152	General Chemistry	4	4	PHYS 211-212	General Physics	3	3
MATH 200	Elem Linear Algebra		2	PHYS 213-214	General Physics Lab	1	1
MATH 181,182	Calculus I, II*	4	3	PHYS 311-312	Gen Phys Calc Appli		2
RELB 125	Life & Teachings**		3	SPCH 135	Intro to Pub Spking		3
CPTR 131	Fund of Prog I		3	HIST 174	Survey of Civ**		3
	Area G, PE Activity			PSYC 124	Intro to Psych**		3
		16	16	RELT 373	Christian Ethics**		3
						16	18

*Engineering students are expected to have taken a year-long precalculus course (beyond Algebra II) in high school. Those who haven't should take a college precalculus course at home during the summer.

**With the approval of the engineering adviser, certain other general education courses may be substituted for these courses.

***Not required for the A.S. degree.

The suggested sequence of courses listed above is demanding and difficult to complete in four semesters. Most students are advised to carry sixteen or fewer credits per semester. This can be done and the sequence completed in two years if some courses are taken during summer sessions.

(See pages 47-49 and 51-55 for general degree and general education requirements.)

The total number of hours for the A.S. degree in engineering studies is sixty-four. The suggested sequence of courses given above meets all major and general education requirements. It closely parallels the first two years of engineering studies at Walla Walla College.

Students who plan to continue their education at an engineering school other than Walla Walla College should take that school's catalog to the engineering adviser for guidance in selecting general education courses.

ENGINEERING COURSES

ENGR 149. Mechanical Drawing (G-2) **2 hours**
See TECH 149 for course description.

ENGR 150. Computer-Aided Drafting (G-2) **3 hours**
Prerequisite: ENGR 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods laboratory each week. Lecture as announced by the instructor. (Spring)

ENGR 151. Architectural Drafting **3 hours**
See TECH 151 for course description.

ENGR 211. Engineering Mechanics: Statics 3 hours

Pre- or corequisites: MATH 182, PHYS 211, 213.

Two and three-dimensional equilibria employing vector algebra; friction; centroids and center of mass, virtual work, and moments of inertia. (Fall)

ENGR 212. Engineering Mechanics: Dynamics 3 hours

Pre- or corequisites: MATH 218, PHYS 212, 214, 311-312.

One and two-dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum. (Spring)

ENGR 214. Circuit Analysis 3 hours

Pre- or corequisites: MATH 218, PHYS 212, 214, 311-312.

Circuit variables and parameters; Kirchhoff's laws and circuit solution; sinusoidal steady-state; phasors and impedance; frequency characteristics; Thevenin's theorem and maximum power theorem; transients and complete response. Laboratory covers basic electrical measurements using DC and AC meters, potentiometers, recorders, and bridges. (Currently not being offered)

ENGLISH AND SPEECH

Chair: David C. Smith

Faculty: Ann Clark, Don Dick, Jan Haluska, Pam Harris, John Keyes, Wilma McClarty, Helen Pyke, Lynn Sauls

Adjunct Faculty: Rosemary Dibben, Bernice Gerhart, Sheila Smith, Bobbie Jane Van Dolson

The English and Speech Department offers two categories of classes that view man's search for truth and its most convincing expression through a Christian perspective. *Language and speech* courses aid students in developing ease, confidence, and competence in the art of effective communication and in acquiring knowledge of the science of language; *literature* courses develop the ability to discern and appreciate the best literary works.

Students majoring in English must meet the specific requirements of the English Department (below) and the General Education program (pages 47-49, 51-55). For English, intermediate foreign language is required.

ASSESSMENT OF MAJORS

As part of a departmental assessment process, senior English majors complete a writing portfolio analysis, an oral exam, a self-analysis, and a written evaluation of departmental programs. Results provide information used to improve departmental programs; graduation eligibility is not affected. Majors are informed about the purpose and nature of these assessment activities when they enter the English program.

PROGRAMS IN ENGLISH LANGUAGE AND LITERATURE

Major (B.A.): Thirty hours excluding Basic Writing and College Composition, but including ENGL 214, 215, 216, 218, 315, 445, and 313 or 314; plus nine elective hours from ENGL 326, 335, 336, 337, 338, 323 or 425, 313 or 314. Majors may substitute a journalism writing class or an English topics course for one English elective. Required cognates: SPCH 135, HMNT 205, HIST 374, and intermediate foreign language. Recommended for teaching majors: JOUR 205 News Reporting or JOUR 174/475 Journalism Workshop. Students planning to obtain educational certification will need to include the required professional education courses and additional general education requirements in their program as outlined in the Education/Psychology section of this catalog. English majors who minor in journalism or public relations are eligible for internships through the Journalism Department.

Typical Sequence of Courses for
B.A. ENGLISH
(Non-Teaching)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	ENGL 214	Survey American Lit	3	
ENGL 216	Approaches to Lit		3	ENGL 215	Survey of English Lit		3
ENGL 218	Grammar and Usage	3		ENGL 315	Intro to Linguistics		3
	Area B, Religion	3		HMNT 205	Arts and Ideas	3	
	Area D-1, Inter				Area F, Beh/Fam Sci	2	
	Foreign Lang	3	3		Area B, Religion		3
	Area D-4, Intro				Area C-1, History	3	
	to Pub Speaking	3			Area E, Nat Science		3
	Area E, Nat Sci		3		Area G-2, Prac Skls	3	
	Area G-3, Rec Skls	1			(Typing Suggested)		
	Minor		3		Minor	3	3
		16	15			17	15
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 314	Creative Writing				Area D, UD Lit	3	
	OR		3		Area C-2, Pol Sci/		
	UD Literature				Economics	3	
ENGL 445	World Literature	3			Area G-1, Cre Skls		
ENGL 313	Expository Writing				OR	2	
	OR	3			Area G-3, Rec Skills		
	UD Literature				Area B, UD Religion	3	
HIST 374	History of England	3			Minor or Elective	6	16
	Area A-2, Math	3				17	16
	Area F, Health Sci		2				
	Area B, Religion		3				
	UD Literature		3				
	Minor or Elective	3	3				
		15	14				

NOTE: Students planning to obtain educational certification will need to include the required professional education courses and additional general education requirements in their program.

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Typical Sequence of Courses for
B.A. ENGLISH
(Teaching Major)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	ENGL 214	Survey of Amer Lit	3	
ENGL 216	Approaches to Lit		3	ENGL 215	Survey of Engl Lit		3
ENGL 218	Grammar and Usage	3		ENGL 315	Intro to Linguistics		3
EDUC 135	Intro to Education	3		EDUC 217	Psychol Found of Ed	2	
HLED 173	Health & Life	2		EDUC 240	Ed for Excep Ch/Yth	2	
RELT 138	Adventist Heritage	3		HMNT 205	Arts and Ideas	3	
SPCH 135	Intro to Pub Spkg		3	RELT 255	Christian Beliefs	3	
	Area D-1, Inter				Area A-2, Mathematics		3
	Foreign Lang	3	3		Area C-1, History	3	
	Area E, Nat Sci		3		Area E, Natural Sci	3	
		17	15		Area G-3, Rec Skills	1	
					Minor	3	
						16	16

ENGLISH AND SPEECH

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
EDUC 356	Tests & Measurements	2		ENGL 445	World Literature	3	
EDUC 250	Technology in Educ		2	RELB	Area B, Religion	3	3
ENGL	UD Literature	3		EDUC 421	Behavior Management	2	
ENGL 313	Expository Writing			EDUC 427	Current Issues in Ed	2	
	OR	3		EDUC 432	Reading in Content		2
	UD Literature			EDUC 438	Curric & Content Meth		2
EDUC 314	Creative Writing			EDUC 462	Organiz & Ldrship		1
	OR		3	SOCI 223	Marriage & Family		2
	UD Literature				Area C-2, Pol Sci/Econ	3	
HIST 374	History of England	3			Area G-3, Rec Skls		1
	UD Literature		3		Minor	3	3
LIBR 425	Library Mat/Yng Adlt	2				16	14
	Area G-3, Rec Skls		1				
	Minor	3	6				
		16	15				

YEAR 5

		Semester	
		1st	2nd
EDUC 468	Enhanced Stud Tchg	8	

*Any amount over 16 hours is considered an overload. Students electing a teaching major should consider at least one summer session.

Minor: Eighteen hours, excluding Basic Writing and College Composition, including ENGL 214, 215, 216, 218, 313 or 314, and three upper division hours of electives.

ENGLISH LANGUAGE AND COMPOSITION

ENGL 099. Basic Writing

3 hours

Prerequisite: Students whose first language is not English must have a score of 90 or above on the Michigan English Language Institute Test.

Focuses on development of those writing skills necessary for successful entry into ENGL 101. Students whose English ACT score is 14 or below are required to register for this class. Students successfully completing this course will earn three institutional elective credits and may enroll in ENGL 101. This course does not count toward an English major or minor. (Fall)

ENGL 101-102. College Composition (A-1)

3,3 hours

ENGL 101 is prerequisite to ENGL 102.

A two-semester course focusing strongly on the writing process, especially revision. ENGL 101 emphasizes specific writing skills and principles which readily apply to most writing tasks. Students write expository essays organized according to prescribed modes. ENGL 102 reinforces the proficiencies developed in ENGL 101 while focusing on rhetorical and reasoning skills which apply to various persuasive and research writing activities. Students write persuasive essays and a research paper. This course does not count toward an English major or minor. (Fall, Spring, Summer)

ENGL 218. Grammar and Usage

3 hours

A study of traditional descriptive grammar, standard American English usage rules, and an introduction to structural analysis. The grammar and usage sections are individualized and use a programmed text. Classroom instruction includes several different diagramming techniques and educational theory about the teaching of grammar. Designed especially for English majors, minors, and prospective language arts teachers, this course is also open to others who wish to enhance their knowledge of standard usage and strengthen skills in grammar analysis. (Fall)

ENGL 313. Expository Writing (G-2) (W)

3 hours

A workshop approach that provides practical instruction in expository writing for all disciplines. Emphasis on inventional procedures, connecting substance and structure, research, revision, persuasion, and adapting material and tone for a specific audience. Involves reading and analysis of a wide variety of writing. Helpful for all students wishing to improve their writing skills, including students headed for graduate school or professional fields like business, medicine or law where writing is important. Writing topics may be chosen from a student's major field of study, and students will work on producing publishable material for their particular field. Tailored to the level, needs, and interests of students who enroll. (Fall)

ENGL 314. Creative Writing (G-1) (W)

3 hours

Prerequisite: Three hours of literature or permission of instructor.

A study of the principles, techniques, and kinds of personalized writing, providing the student with opportunity to develop his own style and to find possible markets for his manuscripts that may be worthy of publication. (Spring)

ENGL 315. Introduction to Linguistics

3 hours

A survey of historical, social, psychological, biological, and pedagogical aspects of the English language.

Primary topics include: (1) history of the English language, (2) grammatical aspects of language (including phonetics, phonology, morphology, syntax—particularly transformational-generative grammar, and semantics), (3) social aspects of language (including dialects, pidgins, and creoles; slang and jargon; sexism; and writing compared with speaking), (4) psychological-biological aspects of language (including acquisition, and critical age hypotheses), (5) applications of linguistics to teaching. (Spring)

LITERATURE

ENGL 214. Survey of American Literature (D-2)

3 hours

Prerequisite: ENGL 102.

A study of representative selections from major American authors, colonial through modern, with emphasis on ideas, attitudes, and trends having individual, national, and universal interest. (Fall)

ENGL 215. Survey of English Literature (D-2)**3 hours**

Prerequisite: ENGL 102.

A study of representative selections by British writers, with special emphasis on the author's philosophy as compared or contrasted with Bible-based thinking, and a review of literary trends and influences from the late Roman period to the present. Among writers receiving strong attention are Chaucer, Shakespeare, Donne, Milton, Wordsworth. (Fall, Spring)

ENGL 216. Approaches to Literature (D-2)**3 hours**

Prerequisite: ENGL 101.

A study of what recognized poets, short-story writers, dramatists, and novelists have to say about the human condition, emphasizing the various approaches to literature and including an introduction to literary terms and critical evaluation. (Spring)

ENGL 323. Nineteenth-Century American Literature (D-2) (W)**3 hours**

A chronological study of major nineteenth-century American writers and their works beginning with the writings of Washington Irving and the emergence of a genuine "American" literature and ending with Stephen Crane and Jack London whose naturalistic works bridge the nineteenth and twentieth centuries. Among the authors studied are Cooper, Bryant, Longfellow, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, and James. (Fall, even years)

ENGL 326. Film Evaluation (D-2) (W)**3 hours**

The primary goal of the class is to help each student develop a personal set of criteria for evaluating films. Class activities include viewing films that have made significant contributions to our culture, reading film reviews and criticisms, studying how films are made and how to write about films, and writing about them. The class meets one night per week for a minimum of 3 hours, at which time films are viewed. Evaluation papers based on this viewing are due weekly. (Spring)

ENGL 335. Biblical Literature (D-2) (W)**3 hours**

A study of some of the literary masterpieces of the Bible in English translation. The course applies techniques of oral interpretation and literary analysis (including emphasis upon uses of poetic and rhetorical devices and of figures of speech) to forms of literature such as address, proverb, parable, poem, short story, epistle, and apocalypse. (Fall, odd years)

ENGL 336. Medieval and Renaissance Literature (D-2) (W)**3 hours**

From Chaucer through Milton, the writers and their times. Readings in Middle English narrative, allegory, play, and meditation; in sixteenth and seventeenth-century prose, poetry and dramatic literature, with the study of genre, conventions, and trends. Specific attention to moral and religious issues. (Fall, even years)

ENGL 337. Nineteenth-Century**British Literature (D-2) (W)****3 hours**

A study of British writers from the Romantic or Victorian periods (1785-1901), with special emphasis upon Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Austen, Tennyson, Dickens, Arnold, Browning, Carlyle, and Wilde. (Spring, even years)

ENGL 338. Twentieth-Century Writers (D-2) (W) 3 hours

A study of twentieth-century writers with an emphasis on American and/or British works, although world literature in translation may be included. (Spring)

ENGL 425. Literature of the South (D-2) (W) 3 hours

A study of works written by Faulkner, Welty, Warren, Wright, O'Connor and other southern writers which embody the distinctive cultural heritage of the South. An emphasis on the literary treatment of southern traditions and themes. (Fall, odd years)

ENGL 444. Restoration and Eighteenth-Century Literature (D-2) (W) 3 hours

This course considers English literature written between the Restoration and Romantic Revolution. Included are poets and essayists from Milton to Johnson, novelists like Defoe and Fielding, and comic playwrights such as Gay and Goldsmith. (Spring, odd years)

ENGL 445. World Literature (D-2) (W) 3 hours

Beginning with the three great epics which underlie the literature of the Western World--the Iliad, The Odyssey, and The Book of Job--the class will consider a range of classical and medieval works from the Greeks to the Italian Renaissance. Collateral emphasis will be on enhancing the student's ability to differentiate the pagan from the Christian in the thematic mix of individual works. (Fall)

ENGL 465. Topics in English (W) 3 hours

Selected topics in English presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

ENGL 295/495. Directed Study 1-3 hours

The content of this course will be adjusted to meet the particular needs of the student. This course also includes credit offered by the English Department on directed study tours. Open only to English majors or minors with the approval of the department chairman in consultation with the prospective instructor. This course may be repeated for credit.

EDUCATION

EDUC 438. Curriculum and Content Methods/English 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance; the survey and evaluation of textbooks is also included.

SPEECH

SPCH 135. Introduction to Public Speaking (D-4) 3 hours

Preparation and presentation of short informative and persuasive speeches with emphasis on the selection and organization of material, reasoning, methods of securing interest, persuasive strategies, and the elements of delivery. (Fall, Spring, Summer)

SPCH 136. Interpersonal Communication (D-4) 3 hours

Introducing the process of informal transactional communication, this course emphasizes a quality of communication rather than a communication setting, namely personal involvement through emphatic listening and self-disclosure. The course utilizes readings and learning activities to help students understand the theory of interpersonal communication and apply it in realistic transactions.

SPCH 236. Oral Interpretation (D-4) 3 hours

Theory and practice in the art of conveying to others the full meaning of selections in literature of various types via reading and interpreting orally.

SPCH 465. Topics 3 hours

Selected topics in speech and related areas presented in a classroom setting. Subjects covered will determine general education credit status. This course may be repeated for credit.

SPCH 295/495. Directed Study 1-3 hours

The content of this course will be adjusted to meet the particular needs of the student. Open only to students approved by the department chairman in consultation with the prospective instructor. This course may be repeated for credit.

(A-1), (D-2), (G-1), (W) See pages 51-55 for explanation of General Education requirements.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

Chair: Phil Garver

Faculty: Ted Evans, Steve Jaecks, Joi Richards

Adjunct Faculty: Ronnie Barrow, Elizabeth Bowman, Nancy Brock, Bill Godsey, Charles Knapp, June Mathis

The courses in Health, Physical Education, and Recreation propose to acquaint students with principles of healthful living, to develop physical efficiency, to develop wholesome recreational habits and/or prepare for a career in health, physical education, and recreation, or in wellness management.

PROGRAMS IN HEALTH, PHYSICAL EDUCATION, AND RECREATION

Major (B.S.): Forty-three hours including HLED 173, 314, 315, 373, 473; PETH 114, 115, 116, 117, 118, 119, 214, 215, 216, 217, 218, 219, 265, 266, 363, 364, 374, 437, 463, 474, 490, (295/495); PEAC 254, 255. Required cognates: BIOL 101-102; FDNT 125.

Competency required in PEAC 143, Beginning Tumbling.

Skill deficiencies in each PETH activity unit, 114 through 119 and 214 through 219, will be indicated by grade of C- or less. Deficiencies for these units must be met by taking for no credit the corresponding general education activity course.

Intramural participation is recommended for all majors and minors.

Students who desire teacher certification must meet the State of Tennessee certification requirements set forth by the Department of Education.

Typical Sequence of Courses for B.S. IN PHYSICAL EDUCATION

Leading to Licensure 7-12

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	PETH 265-266	Officiating	2	2
BIOL 101-102	Anatomy & Physiology	3	3	PETH 221-222	Prof Skills, Indiv	2	2
PETH 121-122	Prof Skills, Team	2	2	RELT 138	Adventist Heritage	3	
EDUC 135	Intro to Education	3		HLED 173	Health & Life		2
RELT 255	Christian Beliefs		3	HLED 373	Care/Prev Injuries		2
SOCI 223	Marriage & Family		2	EDUC 217	Psych Found of Ed	2	
	Elective	2		EDUC 240	Except Child & Yth		2
	Area C-1, History	3	3	MATH 103	Survey of Math	3	
		16	16	SPCH	Electives	3	
					Area D, Lit/Fine Arts		3
					Creat/Prac Skls		2
						15	15
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
HLED 314	Kinesiology	3		PETH 495	Directed Study	1	
HLED 315	Phy of Exercise		4	PETH 463	PE in Elem School	2	
PETH 364	Princ/Admin of PE		3	PETH 374	Motor Learning	2	
PETH 363	Intro to Meas & Res	3		RELB	Biblical Studies (UD)	3	
EDUC 356	Tests & Measurements	2		EDUC 421	Behavior Management	2	
EDUC 250	Technology in Educ		2	EDUC 427	Curr Issues in Ed	2	
FDNT 125	Nutrition	3			Area D, Lit/Lang/ Fine Arts		3
PEAC 254	Lifesaving		1				
PEAC 255	Water Safety Instr		1	RELB	Bible Elective		3
PETH 437	Adapt Phy Ed		2	HLED 473	Health Education	2	
PETH 474	Psyc & Soc of Sports	2		EDUC 432	Reading in Content	2	
	Area B-1, Bibl Stud		3	EDUC 438	Curri & Content Methds	2	
	Area E-2, E-3, or E-4, Science			EDUC 462	Organization & Ldrshp	1	
		3			Area C-2, Pol Soc/Hist	3	
		16	16		Area G-1 or G-2		1
						15	14
YEAR 5							
EDUC 468	Enhanced Stud Tchg	8					

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including PETH 265, 266, eight hours selected from 114, 115, 116, 117, 118, 119, 214, 215, 216, 217, 218, 219, and six hours of upper division, including PETH 364.

The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively.

**PROGRAM IN CORPORATE/COMMUNITY
WELLNESS MANAGEMENT**

Major (B.S.): Forty-one hours including HLED 173, 256, 314, 315, 373, 470, 476, 497; PEAC 125; PETH 364, 374, 474, 490; BIOL 101-102; CHEM 111; FDNT 125. Cognate requirements: ACCT 103; BMKT 226; BUAD 234, 358; CPTR 105; ECON 213; JOUR 205; PSYC 128, 377; SOCI 223.

**Typical Sequence of Courses for
B.S. CORPORATE/COMMUNITY
WELLNESS MANAGEMENT**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	MATH 104	Intermediate Algebra	3	
BIOL 101-102	Anatomy & Physiology	3	3	JOUR 205	News Reporting	3	
HLED 173	Health and Life	2		FDNT 125	Nutrition		3
PEAC 125	Conditioning	1		PSYC 128	Developmental Psych	3	
CPTR 105	Intro to Word Process		1	CHEM 111	Survey of Chemistry		3
SOCI 223	Marriage & Family		2	ART 218	Art Appreciation	3	
	Area B, Religion	3		SPCH 135	Intro to Public Spkg		3
	Area C, History	3	3		Area B, Religion		3
	Electives		4		Area D, Literature	3	
		15	16		Electives	1	4
						16	16
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ACCT 103	College Accounting	3		HLED 314	Kinesiology	3	
BMKT 226	Intro to Marketing		3	HLED 497	Wellness Practicum	2	
PETH 474	Psych & Soc of Sport	2		HLED 470	Current Issues in Hlth	2	
ECON 213	Survey of Econ (C-2)	3		HLED 315	Physiology of Exercise		4
HLED 256	Drug Education	2		PETH 490	Senior Seminar		1
PSYC 377	Fund of Counseling		3	BUAD 358	Legal, Eth, & Soc Envir of Business		3
BUAD 234	Principles of Mgmt	3		PETH 374	Motor Learning & Develop		2
HLED 373	Care & Prev of Athletic Injuries		2		Area B, Religion	3	
PETH 364	Prin & Admin of Phy Ed	3			Electives	5	4
HLED 476	Meth/Mat of Hlth Promo	3				15	14
	Area B, UD Religion (W)	3					
	Electives		2				
		16	16				

PROGRAM IN HEALTH SCIENCE

Major (B.S.): Forty-three hours including HLED 173, 314, 315, 373, 470, 473; PETH 374, 490, 495; PEAC 125; CHEM 151-152; MATH 215; BIOL 101-102, 225; FDNT 125.

Typical Sequence of Courses for B.S. HEALTH SCIENCE

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 101-102	Anatomy & Physiology	3	3	RELT 138	Adventist Heritage	3	
SOCI 223	Marriage & Family		2	HLED 173	Health & Life		2
	Area B-2, Religion		3	MATH 215	Statistics		3
	Area C-1, History	3	3	PEAC 125	Conditioning	1	
	Area A-2, Mathematics	3-0			Area D-2, Literature		
	Electives	4-7	2		OR	3	3
		16	16		Area D-3, F. Arts Appr		
					Area D, Lang/Lit/F Arts		
					(D-4 Speech suggested)	3	
					Area G, Skills		2
					Electives	2	2
						16	16

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
HLED 314	Kinesiology	3		HLED 470	Current Issues in Hlth		2
HLED 315	Phys of Exercise		3	HLED 373	Care & Prev of Ath Inj	2	
FDNT 125	Nutrition	3		HLED 473	Health Education		2
PETH 374	Motor Learning		2	PETH 490	Senior Seminar		1
BIOL 225	Microbiology	3			Area B, UD Religion		3
	Area B-1, Bibl Studies		3		Area G, Skills	1	
	Area C-2, Pol Sci/Econ		3		Directed Study in PE	1	
	Area G, Skills	2			Electives	11	7
	Electives	4	4			15	15
		15	15				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

GENERAL EDUCATION ACTIVITY COURSES

PEAC courses have optional pass/fail grades available.

PEAC 123. Volleyball (G-3) 1 hour

Development of the skills of passing, setting, serving, and spiking necessary in participation in power volleyball. (Fall)

PEAC 124. Basketball (G-3) 1 hour

Individual skills and team concepts are developed that may be used in competition and leisure play. (Spring)

PEAC 125. Conditioning (G-3) 1 hour

A study of basic fitness training and aerobic principles in conjunction with a personalized long-range conditioning program for disease prevention and health maintenance. (Fall, Spring)

PEAC 126. Softball (G-3) 1 hour

Fundamental skills in hitting, bunting, sliding, throwing, running, and fielding, incorporated with softball facts, terminology, and team strategy. (Fall)

- PEAC 131. Badminton (G-3)** **1 hour**
Instruction includes strokes, rules, and playing situations plus physical conditioning for badminton. (Spring)
- PEAC 133. Racquetball (G-3)** **1 hour**
Focus is given to basic skills, rules, and terminology so that the student can carry on successful play. (Fall, Spring)
- PEAC 134. Basic Tennis (G-3)** **1 hour**
Emphasis in basic tennis skills including the forehand, backhand, and serve. (Fall)
- PEAC 136. Basic Golf (G-3)** **1 hour**
A basic course for the beginning golfer. Students must have their own golf clubs. Lab fee required. (Fall)
- PEAC 137. Cycling (G-3)** **1 hour**
A course for the active cyclist emphasizing various types of cycling, cycling techniques, safe cycling, and maintenance. Each student provides his/her own bicycle and helmet. (Fall)
- PEAC 138. Intermediate Golf (G-3)** **1 hour**
Play on a variety of courses for the bogey golfer. Students must have their own golf clubs. Lab fee required. (Fall)
- PEAC 139. Intermediate Tennis (G-3)** **1 hour**
For the advanced player. Emphasis is given to the advanced serve, volley, lobs, advanced ground strokes and playing strategy. Admission to class must be approved by instructor. (Fall)
- PEAC 143. Basic Tumbling (G-3)** **1 hour**
Mat tumbling leading to gymnastic free-exercise routines in conjunction with acrosport exposure.
- PEAC 144. Basic Apparatus (G-3)** **1 hour**
Skill development on various gymnastic equipment such as the pommel horse, high bar, P-bars, rings, unevens, and balance beam.
- PEAC 151. Scuba Diving (G-3)** **1 hour**
Leads to basic certification by N.A.S.D.S. or N.A.U.I. Lab fee of \$98 and check out dive expenses charged in addition to tuition. (Fall, Spring)
- PEAC 153. Basic Swimming (G-3)** **1 hour**
Development of beginning and intermediate swimming skills coupled with aquatic safety principles. (Fall, Spring, Summer)
- PEAC 160. Snow Skiing (G-3)** **1 hour**
This course requires the students to go to Colorado during spring break. Grades are based on hours skied and difficulty of slopes skied. The trip expenses vary from year to year, in the \$400 range. These fees are NOT charged to the student's account. Sign up at the gym in November in order to reserve a spot on the trip for the following spring break.

HEALTH, PHYSICAL EDUCATION, RECREATION

PEAC 243. Tumbling Team (Gym-Masters) (G-3) 1 hour

A "variety show" team which emphasizes acroport, sports acrobatics, gymnastics, physical fitness and health. Admission will be based on satisfactory performance of try-out requirements. Participation in all tours is required. This course may be repeated for credit. **Due to program conflicts, second semester Gym-Masters will not enroll in classes that meet before 1:00 p.m. on Tuesdays and Thursdays.** (Fall, Spring)

PEAC 253. Intermediate Swimming (G-3) 1 hour

Review of swimming strokes, diving, and conditioning. (Fall, Spring)

PEAC 254. Lifeguarding (G-3) 1 hour

Prerequisite: PEAC 253 or equivalent.

Leads to Red Cross Life Guarding certification, First Aid and CPR certification. (Fall, Spring)

PEAC 255. Water Safety Instructor (G-3) 1 hour

Prerequisite: PEAC 254 or equivalent.

Leads to Red Cross Water Safety Instructor certification. (Fall, Spring)

PEAC 259. Special Activities (G-3) 1 hour

Courses with various structured content may be offered under this topic heading. Included are courses in water skiing, sailing, small craft, snow skiing, rock climbing, spelunking, and aerobics. This course may be repeated with the varying subject matter. Lab fees in addition to tuition are usually charged approximately \$50-\$160.

PEAC 261. Introduction to Recreation (G-3) 1 hour

A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living and activities.

HEALTH EDUCATION

HLED 173. Health and Life (F-3) 2 hours

A study of current subjects vital to healthful living. Integrating healthful living and Christianity with today's scientific research. Not open to nursing students. (Fall, Spring, Summer)

HLED 203. Safety Education (F-3) 2 hours

The nature and causes of accidents with emphasis in teacher/pupil safety problem situations. (Spring)

HLED 256. Drug Education 2 hours

An introductory course focusing on the use and abuse of drugs in our society. Emphasis on strategies to assist future health promoters in recognition, intervention, and prevention of substance abuse. (Fall)

HLED 314. Kinesiology 3 hours

Prerequisite: BIOL 101-102 or equivalent.

A study of the anatomical and mechanical variables influencing movement, including adaptive activities for the handicapped person. Historical impact of the leaders in physical education is covered. (Fall)

HLED 315. Physiology of Exercise (W) 4 hours

Prerequisite: BIOL 101-102 or equivalent.

Emphasizing the physiological effects of muscular exercise, aerobics, and physical conditioning. Significance of these effects for health, skilled performance, and prevention of disease. (Spring)

HLED 373. Care and Prevention of Athletic Injuries 2 hours

Prerequisite: HLED 314.

Investigations into the prevention, care, and proper management of injuries related to athletics. (Spring)

HLED 470. Current Issues in Health 2 hours

This is a seminar course designed to assist students in becoming knowledgeable regarding health issues of our time. Library research and class presentations are required. Discussion and problem solving are emphasized. A major part of the class focuses on the need of a spiritual component in establishing a healthful and balanced lifestyle. (Fall)

HLED 473. Health Education 2 hours

Prerequisite: HLED 173 or HLED 470.

A study of the theoretical and scientific basis of health education with emphasis on the development and organization of the school health instruction program. (Spring)

HLED 476. Methods and Materials of Health Promotion 3 hours

A course in planning, implementing and evaluating: work-site and community health promotion activities, including stress management, smoking cessation, cardiovascular fitness, body composition, and cholesterol testing. (Spring)

HLED 497. Wellness Practicum 2 hours

The student will work at a wellness facility for not less than 100 clock hours gaining experience with equipment, observing facility scheduling and management, and interacting with clients. Arrangements are made in advance with the department chairman. One-third the regular tuition rate will be charged. (Fall, Spring, Summer)

PHYSICAL EDUCATION THEORY

PETH 114. ProAct - Softball 1 hour

Development of professional skills including performance and teaching techniques for softball. For majors and minors only. (Fall, odd years)

PETH 115. ProAct - Flagball 1 hour

Development of professional skills including performance and teaching techniques for flagball. For majors and minors only. (Fall, odd years)

PETH 116. ProAct - Volleyball 1 hour

Development of professional skills including performance and teaching techniques for volleyball. For majors and minors only. (Fall, odd years)

- PETH 117. ProAct - Basketball** 1 hour
Development of professional skills including performance and teaching techniques for basketball. For majors and minors only. (Spring, even years)
- PETH 118. ProAct - Floor Hockey** 1 hour
Development of professional skills including performance and teaching techniques for floor hockey. For majors and minors only. (Spring, even years)
- PETH 119. ProAct - Soccer** 1 hour
Development of professional skills including performance and teaching techniques for soccer. For majors and minors only. (Spring, even years)
- PETH 210. Aerobic-Exercise Instructor Training** 2 hours
This course will combine the theory and practical aspects of aerobic exercise programs. Knowledge and skills will be the focus, with students developing and teaching their own aerobic routines as a demonstration of their understanding and skills of sound aerobic principles. Aerobic certification will be available.
- PETH 214. ProAct - Tennis** 1 hour
Development of professional skills including performance and teaching techniques for tennis. For HPER majors and minors only. (Fall, even years)
- PETH 215. ProAct - Golf** 1 hour
Development of professional skills including performance and teaching techniques for golf. For HPER majors and minors only. (Fall, even years)
- PETH 216. ProAct - Conditioning** 1 hour
Development of professional skills including performance and teaching techniques for conditioning. For HPER majors and minors only. (Fall, even years)
- PETH 217. ProAct - Badminton** 1 hour
Development of professional skills including performance and teaching techniques for badminton. For HPER majors and minors only. (Spring, odd years)
- PETH 218. ProAct - Track and Field** 1 hour
Development of professional skills including performance and teaching techniques for track and field. For HPER majors and minors only. (Spring, odd years)
- PETH 219. ProAct - Gymnastics** 1 hour
Development of professional skills including performance and teaching techniques for gymnastics. For HPER majors and minors only. (Spring, odd years)
- PETH 265, 266. Officiating Sports Analysis** 2,2 hours
An introduction to administration of and participation in the organization of officiating in team and individual recreational activities. (Fall, Spring)
- PETH 363. An Introduction to Measurements and Research of Physical Education** 3 hours
A survey of tests used in Physical Education and an introduction to statistical procedures for analyzing data and how it may be applied to research. History of physical education is also dealt with briefly. (Fall)

PETH 364. Principles and Administration of Physical Education and Recreation 3 hours

An integrated study of the principles and administrative concepts of Physical Education and Recreation with emphasis in management needs and skills. (Spring)

PETH 374. Motor Learning and Development 2 hours

A course of study designed to examine motor development and motor behavior as it relates to an individual's maturation process, with emphasis placed on implications for the physical educator. (Fall)

PETH 437. Adaptive Physical Education 2 hours

A course designed to develop an understanding of neurodevelopment and functional ability, of impairments and their implications for motor performance. Emphasis on teaching progressions and exercise programs for special populations. (Fall)

PETH 463. Physical Education in the Elementary School 2 hours

A course of study designed to acquaint students with the unique aspects of physical education and the adolescent. Special activities include teaching and observation in an elementary school.

PETH 474. Psychology and Sociology of Sports 2 hours

An exploration of sports and their involving impact on American culture. Special attention is given to current issues in sports as they relate to the individual in society. (Spring)

PETH 490. Senior Comprehensive Seminar (W) 1 hour

A course of study designed to prepare the student for the exit exam. Special attention is given to concepts, practical applications, and administrative responsibilities within the profession. This course will be on a pass/fail basis.

PETH 295/495. Directed Study (W) 1-3 hours

For Physical Education majors or minors only. Gives the student the opportunity to pursue knowledge in an area of interest related to health, PE, or recreation. Approval by Department Chair required.

EDUCATION

EDUC 438. Curriculum and Content Methods/Health and Physical Education 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance.

HISTORY

Chair: Benjamin McArthur

Faculty: Dennis Pettibone, Mark Peach

History is the study of the human experience. It investigates mankind's ideas, institutions, and activities. In pursuing this investigation, history courses at Southern College emphasize the Christian view of humanity. This perspective recognizes both the potential and the limitation of human endeavor and thereby permits a broader comprehension of the past and a greater hope for the future.

Approval of study programs for history majors. Departmental approval is necessary for all programs. A student majoring in history must plan his/her entire study program with a member of the history faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.
4. Completion of senior year assessment.

ASSESSMENT OF MAJORS

Assessment of seniors consists of two parts. First, in the spring semester of their senior year students will take the ETS Major Field Achievement Test in history. Second, at the end of the fall or early in the spring semester, students will take a departmental exam. Preparation for this exam will include a one-hour independent study course (normally taken during the fall of the senior year) involving: 1) reading a selected few classics of historical literature; 2) reviewing one's history coursework utilizing several thematic questions provided by the history faculty.

The subsequent examination will be in the form of a one-hour interview of the candidate by the history faculty. This will be based on the above-mentioned materials and also on the student's portfolio of major papers accumulated during his/her history coursework. The oral examination is graded on an Honors, Pass, or Fail basis. A failure requires further preparation by the student and another interview before graduation.

BACHELOR OF ARTS DEGREE IN HISTORY

Major: Thirty-one hours including HIST 154, 155, 174, 175, 490, 499. Six hours of political science may apply to the major. The intermediate level of a foreign language is required. At least two courses are to be taken in each of the following areas:

Area I: American History, HIST 353, 354, 355, 356, 357, 359; PLSC 254.

Area II: European History, HIST 374, 375, 386, 389, 471, 472; PLSC 389; either HIST 364 or 365.

Cognate: One of the following: ECON 224, 225, GEOG 204.

Typical Sequence of Courses for B.A. HISTORY

YEAR 1

		Semester	
		1st	2nd
HIST 154, 155	American History	3	3
ENGL 101-102	College Composition	3	3
	Area B, Religion	3	
	Area A-2, Mathematics		0-3
	Area F, Behav/Family/ Health Science	3	2
	Area D, Lit/Fine Art		
	OR	3	3
	Area D-1, Beg For Lang		
	Electives	5-2	
		15	16

YEAR 3

		Semester	
		1st	2nd
	Area B, Religion	3	
	Area C, UD History	3-6	3-6
	Area G, Skills		2
	Area G-3, Res Skill		1
	Area C-2, Pol Sci/Econ	3	
	Minor or Electives	6-3	10-7
		15	16

YEAR 2

		Semester	
		1st	2nd
HIST 174, 175	World Civilizations	3	3
	Area B, Religion	3	
	Area E, Natural Sci	3	3
	Area G, Act Skills	3	
	Area D, Lit/Fine Arts/ Speech		3
	Minor or Elective		4
	Area D, Inter For Lang	3	3
		15	16

YEAR 4

		Semester	
		1st	2nd
HIST 490	Senior Exam Prep		1
HIST 499	Research Meth in Hist	3	
	Area B, UD Religion	3	
	Area C, UD History	3-6	3-6
	Minor or Electives	6-3	12-9
		15	16

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

History as a preprofessional degree: A student majoring in history who plans to enter a professional school in an area such as medicine or law must present a balanced program of general education classes and electives that will support the professional objectives.

History as a preparation for teaching: A student majoring in history who plans to teach will automatically have the 24 semester hours required for certification in the area of the first teaching field. It is strongly recommended that the student also earn teaching credentials in a field outside of history. No specific supporting field is

required but art, behavioral science, business, English, modern languages, and religion are recognized as intimately related to the study of history. A student may receive certification to teach history as a second area by completing a minor in history (see under Minor below). Since the entire second semester of the senior year is devoted to certification requirements, students earning teacher certification must finish all history classwork before reaching the final semester. Students applying for teacher certification must consult with the Education Department to draft a schedule of classes meeting certification requirements.

Before the end of the sophomore year the student must apply to the Department of Education for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Department of Education for admission to the professional semester.

History Minor: Eighteen hours including HIST 174, 175. The additional twelve hours will be chosen from remaining history courses, six hours of which must be upper division. A minimum of three hours must be chosen from each of the American and European areas. Three hours of political science may be taken in lieu of three hours of history. A student planning to minor in history in order to obtain a second teaching area for certification must take all eighteen hours in history and must include HIST 154, 155.

History Department tours: The Department of History regularly sponsors study tours to foreign countries and in the United States. The purpose of these tours is to provide students and other participants with an enhanced understanding of history and culture through a combination of traditional lecture and reading with direct observation of historical sites. Academic activities connected with the tours require students to spend an amount of time equal to that expected in a regular classroom setting. Preparatory meetings and assigned reading are included in this computation. Course credit is offered under HIST 295/495 Directed Study in History. Cost of the tours includes charge for academic credit.

History as general education: Freshman and sophomore students earning general education credit in history should take courses from the 100 and 200 level. Junior and senior students meeting general education requirements in history should select courses from the 300 and 400 level.

Political Economy Minor: This eighteen-hour minor combines an interdisciplinary selection of courses helpful for law school preparation. For a further description of this pre-law preparation program, see page 269.

HISTORY

HIST 154, 155. American History and Institutions (C-1) 3,3 hours

An introductory survey of the nation from colonial times to the present. The development of its politics, government and social institutions is covered in each semester of the sequence. This course is recommended as general education for freshmen and sophomores. (Fall, Spring, Summer)

HIST 174, 175. World Civilizations (C-1) 3,3 hours

A study of the development of Western and non-Western culture and government, emphasizing the evolution of European society and its interaction with non-European civilizations. This course is recommended as general education for freshmen and sophomores.

HIST 353. From Colony to Nation (C-1) (W) 3 hours

A detailed survey of American political and social history from 1607 to 1800, including the founding of the thirteen colonies, the American Revolution, and the establishment of the new nation.

HIST 354. Latin America (C-1) (W) 3 hours

A survey of Latin America offering brief backgrounds from the colonial, independence, and early national periods, but focusing on twentieth-century trends in selected republics. Arranged with instructor.

HIST 355. History of the South (C-1) (W) 3 hours

A study of the American South from the Early National period through Reconstruction. Prominent issues will include slavery, sectionalism, the Civil War, and Reconstruction.

HIST 356. Natives and Strangers (C-1) (W) 3 hours

A study of immigration and the role of ethnic groups in American society. Special emphasis on the tension between assimilation and pluralism in the national character.

HIST 357. Modern America (C-1) (W) 3 hours

A study of American History from 1900 on with special examination of the progressive era, normalcy, the depression, the New Deal, and the role of the United States in world affairs. (Fall)

HIST 359. Transformation of American Culture (C-1) (W) 3 hours

A topical approach to nineteenth and twentieth-century American history, focusing on the modernization of life. Among the topics that may be covered are entertainment, the media, urban culture, social relations, transportation, and art and architecture.

HIST 364. Christian Church I: From the Early Church Through the Middle Ages (C-1) (W) 3 hours

A study of the history of western Christianity from the end of the apostolic period to the end of the Middle Ages, emphasizing both institutional and theological development. (Fall)

HIST 365. Christian Church II: From the Reformation Through the Twentieth Century (C-1) (W) 3 hours

A study of the reorientation of western Christianity, beginning with the Protestant Reformation and culminating with contemporary religious trends. (Spring)

HIST 374. History of England (C-1) (W) 3 hours

A survey of the history of Great Britain from Roman times to the twentieth century, emphasizing political, cultural, and economic developments which have influenced western civilization as a whole.

HIST 375. Ancient World (C-1) (W) 3 hours

A study of the three stages of ancient civilization, the Ancient Near East, Greece, and Rome, and the contribution each has made to the development of western culture.

HIST 386. Rise of the West (C-1) (W) 3 hours

A study of European history from the fall of Rome to the beginning of the modern age, focusing on those developments which have influenced the institutions and values of modern western civilization. The chronological emphasis is on the eleventh through the sixteenth centuries.

HIST 389. Vienna to Vietnam (C-1) (W) 3 hours

A study of major historical developments affecting international relations since the Napoleonic Era. The class treats antithetical forces such as peace and war, power and weakness, sovereignty and dependence, as well as others, in their historical setting. Students may earn either history or political science credit, depending on individual assignments.

HIST 465. Topics in History (C-1) (W) 3 hours

Selected topics in history presented in classroom setting. Subjects covered will determine whether credit is granted in Area I or Area II. This course may be repeated for credit.

HIST 471. Classics of Western Thought I (C-1) (W) 3 hours

A study of the key thinkers in western thought from the Heroic Age of Greece to the Renaissance. Reading from original sources, this class will emphasize the discussion and analysis of ideas that have formed the basis of western thought. Included in the readings are selections from Herodotus, Cicero, St. Augustine, Boccaccio, Montaigne, and St. Ignatius of Loyola.

HIST 472. Classics of Western Thought II (C-1) (W) 3 hours

A study of the key thinkers in the nineteenth and twentieth centuries. Reading from original sources, this class will emphasize discussion of critical ideas that have effected the evolution of contemporary social and political thought. Included in the readings are selections from Locke, Mill, Marx, Nietzsche, Lenin, and Hitler.

HIST 490. Senior Exam Preparation **1 hour**
Independent study and reading in preparation for the assessment exam taken by senior history majors.

HIST 295/495. Directed Study (C-1) (W) **1-3 hours**
A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for HIST 495 only. Approval of the department is required prior to registration.

HIST 499. Research Methods in History (C-1) (W) **3 hours**
Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project. (Fall)

POLITICAL SCIENCE

PLSC 254. American National and State Government (C-2) **3 hours**
An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels.

PLSC 353. From Colony to Nation (C-2) (W) **3 hours**
See HIST 353 for course description.

PLSC 357. Modern America (C-2) (W) **3 hours**
See HIST 357 for course description.

PLSC 389. Vienna to Vietnam (C-2) (W) **3 hours**
See HIST 389 for course description.

PLSC 465. Topics in Political Science (C-2) **3 hours**
See HIST 465 for course description.

PLSC 471. Classics of Western Thought I (C-2) (W) **3 hours**
See HIST 471 for course description.

PLSC 472. Classics of Western Thought II (C-2) (W) **3 hours**
See HIST 472 for course description.

GEOGRAPHY

GEOG 204. World Geography **3 hours**
(C-2 credit for elementary education majors only).
Maps, land forms, soil, mineral resources, weather, and climate are considered. Man's adjustment to various physiographic regions is studied. (Fall)

GEOG 306. Cultural Geography (C-2)

3 hours

A course for student missionaries assigned to a country other than the United States. Focuses on geographic and social characteristics. Activities include assigned reading prior to departure, journal of on-site observations, formal paper after return to campus. Prior to departure, the student will make all arrangements with a teacher assigned by the Department of History. One-third tuition rate.

EDUCATION

EDUC 438. Curriculum and Content Methods/History

2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, and the survey and evaluation of textbooks.

(C-1), (C-2), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

INDUSTRIAL TECHNOLOGY

Chair: Dale Walters

Faculty: John Durichek, Kenneth Reynolds

Adjunct Faculty: Mark McGrath

Advisory Council: Bill Belles, Willard Clapp, Allen O'Neal,

Leon Scoggins, Bob Sullivan, Jeff Taylor

Courses are offered which provide opportunity to balance learning with practical experience in the areas of woods, metals, printing, drafting, and auto maintenance. Objectives of these classes are:

1. To assist the student in growing toward his potential by providing classroom and lab experiences that nurture creativity.
2. To help the student learn to meet the challenges of daily living by providing "hands-on" experiences with elements of the environment.
3. To develop practical skills which will be useful throughout life as hobby and recreational activities as well as professional enhancement.
4. To provide opportunity for the student to develop tactile learning skills.
5. To introduce the student to opportunities in technical and service occupations.
6. To provide background for entrance into specialized technical and professional degree programs and occupations. These courses are essential for students majoring in:

Art

Business Administration

Education

Journalism and Communication

Office Administration

Pre-Occupational Therapy

Pre-Engineering

Minor: A minor in Technology is eighteen hours including six hours upper division. Courses in Auto Body do not apply on this minor except TECH 223.

DIPLOMA PROGRAM

Auto Body--Repair and Refinishing

The auto body program is designed to teach panel repair, refinishing, estimating, frame straightening, and major collision repair. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as tradespeople provide their own hand and air tools, the student will be expected to purchase a skeleton set for personal use during the course. The department will assist the student in the purchase of these tools which will cost approximately \$300.

The requirements are as follows: TECH 110, 111-112, 114, 115, 116, 118, 120; TECH 164, 264, and three hours from General Education B-1 or B-2 courses.

Typical Sequence of Courses for

CERTIFICATE - AUTO BODY REPAIR

A program which provides intensive exposure and correlated experience in various facets of auto body repair.

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 114	Oxy-Acetylene Welding	1	TECH 118	Collision Repair II	5
TECH 111	Painting & Refinish. I	3	TECH 120	Collision Repair III	5
TECH 110	Panel & Spot Repair	4	TECH 112	Painting & Refin II	3
TECH 116	Collision Repair I	4	TECH 115	Arc Welding	2
TECH 164	Auto Maintenance	2	TECH 264	Auto Repair	3
	Area B, Religion	3			18
		<u>17</u>			

At the end of the second semester and after nearly 1,000 hours of instruction and lab time the successful student will have skills to do:

- (1) major collision repair
- (2) frame alignment
- (3) job estimating
- (4) complete repaint work
- (5) power plant and drive train repair

A certificate will be awarded upon satisfactory completion of 900 plus hours of instruction and lab time.

In addition to introductory repair projects, each student will be involved in at least three major collision repair projects.

Enrollment in the Auto Body Diploma Program is limited.

AFFILIATION PROGRAM

Students wishing a Bachelor of Technology degree in Graphic Art or Technical Plant Services may take the following classes and transfer to Andrews University after one year:

B.T. Graphic Arts

TECH 145, 149, 295	6 hours
ART 104, 109	5 hours
CPTE 245	3 hours
CPTR 105, 106, 107	3 hours
ENGL 101	3 hours
JOUR 225	3 hours
RELT 255	3 hours
SOCI 125	3 hours
SPCH 135	3 hours

B.T. Technical Plant Services

TECH 114, 115, 149, 154, 174, 183, 223, 264	19 hours
CPTE 249	3 hours
ENGL 101	3 hours
SPCH 135	3 hours
RELT 255	3 hours
SOCI 125	3 hours

TECHNOLOGY

TECH 101. Technology Awareness 2 hours

This course is designed so that the student will become better acquainted with the field of technology. Emphasis is directed toward but not limited to the area of industrial technology, current and future developments in the industry and their impact on society. Along with an awareness of the qualifications to enter today's technological job market, special attention will be given to the training available at Southern and other SDA institutions. Open to all students.

TECH 110. Panel and Spot Repair 4 hours

Course is the first introduction to body repair. Student will learn how to straighten small dents, prepare panel for body fillers, prime and block ready for painting. (Fall)

TECH 111-112. Painting and Refinishing 3,3 hours

An introductory study of vehicle preparation and painting. Student will progress to doing complete refinish job himself. Student must purchase his own respirator and spray gun. Costs average \$125. (Fall, Spring)

TECH 114. Oxy-Acetylene Welding 1 hour

Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal goggles required. A lab fee of \$10 is charged. (Fall)

TECH 115. Arc Welding **2 hours**

A class designed to give basic understanding of arc welding processes. Emphasis will be given to MIG, TIG, Heliarc, as well as conventional stick welding. Each student must purchase safety glasses, welding gloves, and goggles. A lab fee of \$10 is charged.

TECH 116. Collision Repair I **4 hours**

Introduction to a major collision job. Students will probably work in pairs. Body alignment, frame straightening, panel replacement, and dent repair are involved. (Fall)

TECH 118. Collision Repair II **5 hours**

Continuation of experience in collision repair, emphasizing body alignment, frame straightening, glass work, fiberglass repair, and body section replacement. There is no lecture component to this class, but rather is composed of four three periods laboratory per week. (Spring)

TECH 120. Collision Repair III **5 hours**

A repetition of work experiences of Collision Repair I and II, but on an individual basis. Students will learn estimate writing, parts and supplies purchasing, shop management, and equipment maintenance. (Spring)

TECH 145. Introduction to Graphic Arts (G-2) **3 hours**

Special emphasis is given to offset methods of copy preparation, camera techniques, platemaking, screen printing, and press work. Experience is offered in personal computer desktop publishing. Skills learned are applicable for personal and business communications. A supplies fee will be charged for projects produced in class. Average cost of projects approximately \$75. (Fall)

TECH 149. Mechanical Drawing (G-2) **2 hours**

A basic course in drafting, training the student in the use of instruments and the principles of orthographic projection, surface development, sectioning, pictorial representation, and dimensioned working drawings. Six periods of laboratory each week. Lecture as announced by the instructor. Instruments cost approximately \$40. (Fall)

TECH 151. Architectural Drafting **3 hours**

An introduction to skills and basic knowledge of architectural drafting. Emphasis is on lettering, orthographic projection, parallel line pictorial drawings, shades and shadows, and perspective drawing. Instruments cost approximately \$50. Open to all students.

TECH 154. Woodworking (G-2) **3 hours**

A study of hand and machine tools, joinery, and proper methods of furniture construction. One period lecture, six periods laboratory each week. A supplies fee will be charged for the cost of the materials used in project construction. Generally, the costs have exceeded \$100 or \$200 if large furniture items were constructed. (Spring)

TECH 164. Automotive Maintenance (G-2) 2 hours

A course designed to help the car owner become knowledgeable in the matters of buying, servicing, and maintaining the auto. The student will work on his own car or on one belonging to the shop. One period lecture and three periods laboratory each week. (Fall)

TECH 174. General Metals (G-2) 3 hours

Designed to acquaint the student with the many aspects of working with metals. Instruction will be given in the areas of forging, foundry, sheet metal, welding, plus hand and power-operated metal-cutting equipment. One period lecture and six periods laboratory each week. Project expenses average \$50. Each student must purchase his own safety glasses, welding gloves and goggles. (Spring, alternate years)

TECH 183. Basic Electronics 3 hours

An introductory course to the properties of electricity/electronics as they pertain to AC and DC electrical circuits and devices such as diodes, transistors and integrated circuits. Intended to introduce the beginning student to the field of electronics. Two three-hour lecture/labs each week.

TECH 223. Auto Body Repair (G-2) 3 hours

An introductory course designed to acquaint the student with the principles and techniques used in repair of damaged body panels. Preferences will be given for class admission to those who have experience in doing automotive work and who have gas welding skills. Each student will need his own basic hand tools which cost approximately \$100. One period lecture and six periods laboratory per week. (Spring, alternate years)

TECH 254/354. Furniture Design and Construction 3 hours

Prerequisite: TECH 154.

Emphasis will be placed on the design process as it pertains to woods and its combination with other materials. Two three-hour lecture/labs each week. (Spring, alternate years)

TECH 264/364. Automotive Repair (G-2) 3 hours

Prerequisite: TECH 164.

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation and service. One period lecture and three periods laboratory each week. All lab learning experience is on actual cars either from the community or personal vehicles. (Spring)

TECH 295/495. Directed Study 1-3 hours

The study of a specific problem in the field of Technology. A written report of the problem may be required by the supervising instructor. Open only to those earning a minor in Technology. Offered on demand. (Fall, Spring)

TECH 376. Automation and Robotics 3 hours

See CPTE 376 for course description.

(G-2) See pages 47-49 and 51-55 for explanation of General Education requirements.

JOURNALISM AND COMMUNICATION

Chair: Lynn Sauls

Faculty: Pam Harris, Volker Henning

Adjunct Faculty: Ted Betts, Joyce Dick, Eva Lynne Disbro, Ruth Garren, Wesley Hasden, Douglas Walter, Billy Weeks

The Department of Journalism and Communication provides an educational environment in which future leaders in journalism, public relations and related areas can acquire the enduring ethical concepts, the intellectual discipline and the professional abilities necessary to the mastery and management of a wide range of writing, editing and other journalistic and public relations skills and techniques.

The department offers the Bachelor of Arts Degree with majors in Journalism (News Editorial), Broadcast Journalism, and Public Relations. Minors are also available in each of these areas.

The Journalism (News Editorial) major prepares students for careers as reporters, writers and editors for daily and weekly newspapers, magazines, wire services, publishing houses and for the vast array of publications that serve the church, business, industry, governmental agencies, the medical field, colleges and universities and other non-profit organizations.

Students enrolling in the Broadcast Journalism major receive preparation for careers in both commercial and public radio and television as reporters, writers and editors in news and public affairs operations.

Public Relations majors are prepared for careers in every major segment of business, industry, government, the church, colleges, universities, hospitals and other medical institutions, and in a wide range of organizations.

The Journalism major, Broadcast Journalism major, and the Public Relations major also prepare students for entry into graduate schools nationwide.

Members of the faculty will advise each student in planning a study program that is supportive of individual career goals, that meets degree requirements of the Department of Journalism and Communication, including the intermediate level of a foreign language, and fulfills General Education requirements.

INTERNSHIPS AND ON-THE-JOB TRAINING

Because of the strong relationships which the department has developed with the Chattanooga area mass media, journalism, broadcast and public relations students have many opportunities to meet and work with professionals in television and radio news, in public relations, advertising and on daily and weekly newspapers.

Internships: Helping students locate internships on newspapers, in publishing houses, in public relations and fund development departments and in radio and television newsrooms is a vital part of the education program provided by the department.

A Journalism Professional Advisory Council works with the department to provide internships that give on-the-job experience. The department also participates in the General Conference internship program in which students work in various denominational institutions. The college radio station, WSMC FM90.5 and the community newspaper, *East Hamilton County Journal*, provide learning opportunities for students in a number of courses.

Campus Publications: Students can gain valuable experience as writers and editors by working on Student Association publications such as *Southern Accent*, the campus newspaper, and *Southern Memories*, the yearbook.

ASSESSMENT OF MAJORS

To make satisfactory progress toward preparation for the job market, students majoring in the department will be expected to attend the annual editor-in-residence meetings, the annual Communication Career Day meetings, departmental assemblies, and other presentations of guest professionals sponsored by the department.

Students should demonstrate their growing professionalism through involvement in the operation of WSMC FM90.5; in the publication of the *Southern Accent*, *Southern Memories*, or some other publication; or in communication activities for a campus, church, or community organization.

Participation in the departmental Communication Club and the Southern Society of Adventist Communicators as well as student membership in a national professional organization such as the Society of Professional Journalists, the International Association of Business Communicators, or the Public Relations Student Society of America are also evidences of professional commitment.

A cumulative evaluation form will be kept in departmental files for each student majoring in the department. This form will serve as a source of information for teachers asked to provide recommendations

for students seeking practicums, internships, or job positions. Information concerning evidence of professional growth and achievement will be added by the departmental faculty annually and a copy of the form shared with the student near the end of each school year.

Students in the department will be given a writing skills test when they take JOUR 103, Introduction to Mass Communication, and JOUR 205, News Reporting. On the basis of the results, advisers will recommend any needed remediation, which students must complete before registering for other writing courses offered by the department. Another form of the writing skills test will be administered when students in the department take JOUR 314, Broadcast News Writing, JOUR 355, Reporting Public Affairs, or PREL 365, Public Relations Techniques. Results of the test will be part of the information in a student's cumulative evaluation form.

Departmental effectiveness will be assessed by combining the results of the cumulative evaluations, student evaluations of courses, questionnaires completed by seniors near the time of graduation and again three years afterwards, questionnaires completed by supervisors of interns, and overall program assessment by the advisory council. An ongoing analysis of outlines of courses required for majors is made by the faculty to determine that the curriculum meets the objectives of the department and the standards of the Accrediting Council of Education in Journalism and Mass Communication.

BACHELOR OF ARTS DEGREE IN JOURNALISM, BROADCAST JOURNALISM OR PUBLIC RELATIONS

Major--Journalism (News Editorial): 30 hours

JOUR 103	Introduction to Mass Communication	3 hours
JOUR 205	News Reporting	3 hours
JOUR 212	Copyediting	2 hours
JOUR 314	Broadcast News Writing	3 hours
JOUR 315	Photojournalism	2 hours
JOUR 316	Magazine and Feature Article Writing	3 hours

or

ENGL 314 Creative Writing

or

JOUR 495 Honors Project

JOUR 355	Reporting Public Affairs	3 hours
JOUR 425	Reporting in Special Areas	3 hours

or

ENGL 313 Expository Writing

JOUR 427	Mass Media Law and Ethics	3 hours
JOUR 487	History of Mass Communication	3 hours

or

JOUR 488 Mass Communication and Society

Departmental electives 2 hours

Required Cognates:

ART 109	Publications Design	3 hours
ECON 213	Survey of Economics	3 hours
PLSC 254	American National and State Government ..	3 hours
	Literature elective (D-2)	3 hours
	Music and Art Appreciation elective (D-3) ...	3 hours
	Intermediate level of a foreign language	6 hours

Recommended Electives:

JOUR 497	Journalism Internship	3 hours
MATH 215	Statistics	3 hours
PREL 234	Public Relations Principles and Theory	2 hours
TECH 145	Introduction to Graphic Arts	3 hours
CPTE 245/345	Computer-Aided Publishing	3 hours

Completion of at least 12 hours in each of three or more of the following areas: Behavioral Science, Business and Economics, Education, Health Science, History and Political Science, Literature and Fine Arts, Natural Science, Recreation and Physical Education, Religion, and Technology.

Typical Sequence of Courses for

B.A. JOURNALISM

(NEWS EDITORIAL)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	JOUR 212	Copyediting		2
JOUR 103	Intro to Mass Com.	3		JOUR 314	Broadcast News Writing		3
JOUR 205	News Reporting		3	JOUR 315	Photojournalism		2
JOUR 225	Intro Photography		3	ECON 213	Survey of Economics		3
	(if needed)			PLSC 254	American Government		3
ART 109	Publications Design	3			Gen Ed, Minor or Elect	6	9
	Area D-1, Inter F. Lang	3	3		Area B, Religion	3	
	Gen Ed, Minor or Elect		4			15	16
	Area B, Religion	3					
		15	16				

YEARS 3 AND 4

JOUR 316	Magazine and Feature Writing	OR ENGL 314 Creative Writing	OR	3
JOUR 495	Honors Project			3
JOUR 355	Reporting Public Affairs			3
JOUR 425	Reporting in Special Areas	OR ENGL 313 Expository Writing		3
JOUR 427	Mass Media Law and Ethics			3
JOUR 487	History of Mass Communication	OR JOUR 488 Mass Communication & Society		3
JOUR 497	Journalism Internship (Rec. summer before Year 4)			3
	Area B, Religion			6
	Area D-2, Literature			3
	Area D-3, Music and Art Appreciation			3
	General Education, Minor or Elective			32
				62

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major--Broadcast Journalism: 30 hours

JOUR 103	Introduction to Mass Communication	3 hours
JOUR 205	News Reporting	3 hours
JOUR 201	Foundations of Broadcasting	3 hours
JOUR 302	Broadcasting Techniques	3 hours
JOUR 314	Broadcast News Writing	3 hours
JOUR 317	Broadcast Management	3 hours
JOUR 427	Mass Media Law and Ethics	3 hours
JOUR 487	History of Mass Communication	3 hours
or		
JOUR 488	Mass Communication and Society	

Two of the following: 6 hours

JOUR 315	Photojournalism (3 hours)	
JOUR 327	Video Production (3 hours)	
JOUR 355	Reporting Public Affairs (3 hours)	
JOUR 423	Broadcast Programming (3 hours)	
JOUR 425	Reporting in Special Areas (3 hours)	
JOUR 497	Journalism Internship:	
	Broadcasting (3 hours)	

Required Cognates:

BMKT 226	Introduction to Marketing	3 hours
PLSC 254	American National and State Government	3 hours
PREL 234	Public Relations Principles and Theory	2 hours
SPCH 236	Oral Interpretation	3 hours
or		
SPCH 135	Introduction to Public Speaking	
	Intermediate level of a foreign language	6 hours

Recommended Electives:

HMNT 205	Arts and Ideas	3 hours
MATH 215	Statistics	3 hours
TECH 183	Basic Electronics	3 hours
CPTE 245	Computer-Aided Publishing	3 hours

**Typical Sequence of Courses for
B.A. BROADCAST JOURNALISM**

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	BMKT 236	Intro to Marketing	3	
JOUR 103	Intro to Mass Com	3		JOUR 314	Broadcast News Writing		3
JOUR 201	Foundat of Broadcast		3	PREL 234	Public Relations Prin		2
JOUR 205	News Reporting		3	PLSC 254	American Government	3	
	Area D-1, Inter For Langs		3		Area B, Religion	3	
	Area B, Religion		3		Gen Ed, Minor or Elect	6	11
	Gen Ed, Minor or Elect	3	4			15	16
		15	16				

YEARS 3 AND 4

JOUR 302	Broadcast Techniques	3
JOUR 317	Broadcast Management	3
JOUR 427	Mass Media Law and Ethics	3
JOUR 487	History of Mass Communication <u>OR</u> JOUR 488 Mass Communication & Society	3
JOUR 497	Broadcast Journalism Internship (Recommend summer before Year 4)	3
	Approved Broadcast Journalism Electives	6
SPCH 236	Oral Interpretation <u>OR</u> SPCH 135 Introduction to Public Speaking	3
	Area B, Religion	6
	General Education, Minor or Electives	<u>32</u>
		62

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major--Public Relations: 30 hours

JOUR 103	Introduction to Mass Communication	3 hours
JOUR 205	News Reporting	3 hours
JOUR 225	Introduction to Photography	3 hours
JOUR 316	Magazine and Feature Article Writing	3 hours
JOUR 355	Reporting Public Affairs	3 hours
	or	
	JOUR 425 Reporting in Special Areas	
JOUR 427	Mass Media Law and Ethics	3 hours
	or	
	JOUR 488 Mass Communication and Society	
PREL 234	Public Relations Principles and Theory	2 hours
PREL 344	Fundamentals of Advertising	2 hours
PREL 365	Public Relations Techniques	3 hours
PREL 406	Persuasion and Propaganda	3 hours
PREL 480	Case Studies in Public Relations	2 hours

Required Cognates:

ART 109	Publications Design	3 hours
BMKT 226	Introduction to Marketing	3 hours
SPCH 135	Introduction to Public Speaking	3 hours
CPT 245/345	Computer-Aided Publishing	3 hours
	Intermediate level of a foreign language	6 hours
	Literature or Fine Arts elective (D-2 or D-3)	3 hours

Recommended Electives:

JOUR 212	Copypediting	3 hours
JOUR 302	Broadcasting Techniques	2 hours
JOUR 314	Broadcast News Writing	3 hours
JOUR 327	Video Production	3 hours
MATH 215	Statistics	3 hours
PREL 368	Fund Development	3 hours
PREL 497	Public Relations Internship	3 hours
TECH 145	Introduction to Graphic Arts	3 hours

Typical Sequence of Courses for B.A. PUBLIC RELATIONS

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	JOUR 205	News Reporting	3	
JOUR 103	Intro to Mass Com	3		JOUR 225	Intro to Photography	3	
PREL 234	Public Relations Prin		2	PREL 344	Fund of Advertising		2
ART 109	Publications Design	3		CPT 245	Comp-Aided Publishing		3
SPCH 135	Intro to Pub Speaking		3		Area B, Religion	3	
	Area D-1/Inter For Lang	3	3		Gen Ed, Minor or Elect	6	11
	Area B, Religion	3				15	16
	Gen Ed, Minor or Elect		5				
		15	16				

YEARS 3 AND 4

JOUR 316	Magazine and Feature Writing	3
JOUR 355	Reporting Public Affairs OR JOUR 425 Reporting in Special Areas	3
PREL 365	Public Relations Techniques	3
JOUR 427	Mass Media Law OR JOUR 488 Mass Communication and Society	3
PREL 406	Persuasion and Propaganda	3
PREL 480	Case Studies	2
PREL 497	Public Relations Internship (Rec. summer before Year 4)	3
BMKT 226	Intro to Marketing	3
	Area D-2 or D-3, Literature or Fine Arts	3
	Area B, Religion	6
	General Education, Minor or Electives	30
		62

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor--Journalism (News Editorial): 18 hours

JOUR 103	Introduction to Mass Communication	3 hours
JOUR 205	News Reporting	3 hours
JOUR 212	Copyediting	2 hours
	One of the following:	3 hours
	JOUR 316 Magazine and Feature Article Writing	
	JOUR 355 Reporting Public Affairs	
	JOUR 425 Reporting in Special Areas	
	One of the following:	3 hours
	JOUR 427 Mass Media Law and Ethics	
	JOUR 487 History of Mass Communication	
	JOUR 488 Mass Communication and Society	
	Electives	4 hours
	Electives from Journalism major requirements or	
	ART 109, CPT 245/345, ECON 213, PLSC 254	

Minor--Broadcast Journalism: 18 hours

JOUR 103	Introduction to Mass Communication	3 hours
JOUR 201	Foundations of Broadcasting	3 hours
JOUR 205	News Reporting	3 hours
JOUR 302	Broadcasting Techniques	3 hours

JOUR 314	Broadcast News Writing	3 hours
	Electives	3 hours
	From Broadcast Journalism major requirements or BMKT 226, PLSC 254, PREL 234, SPCH 236	

Minor--Public Relations: 19 or 20 hours

ART 109	Publications Design	3 hours
JOUR 103	Introduction to Mass Communication	3 hours
JOUR 205	News Reporting	3 hours
PREL 234	Public Relations Principles and Theory	2 hours
PREL 344	Fundamentals of Advertising (2 hours)	2 or 3 hours
	or	
	BMKT 226 Introduction to Marketing (3 hours)	
PREL 365	Public Relations Techniques	3 hours
CPTE 345	Computer-Aided Publishing	3 hours

JOURNALISM

JOUR 103. Introduction to Mass Communication (G-2) 3 hours

Overview of the development and characteristics of mass media, with emphasis on media in the United States including newspapers, radio, television, photography, film, sound recording, books, magazines, advertising, public relations, and new media technology. Attention is given to theories of communication and how to be a critical and discriminating consumer of mass media.

JOUR 201. Foundations of Broadcasting 3 hours

Provides an understanding of broadcasting and related industries. Basic theories and practices of radio, television, cable operations, and other electronic media are covered.

JOUR 205. News Reporting (G-2) 3 hours

Prerequisite: Ability to type at least 30 wpm.

News gathering and research techniques; development of newswriting skills and style. Emphasis on clarity of writing, accuracy, balance and fairness and on meeting deadlines in covering news events and interviewing news sources.

JOUR 212. Copyediting 2 hours

Prerequisite: JOUR 205 or consent of instructor.

Principles and practices of preparing copy for publication including headline writing, picture editing, and writing photo captions. Use of the Associated Press Stylebook. Focus is on accuracy, newsworthiness, language effectiveness, legality, and good taste in editing copy. (Alternate years)

JOUR 225. Introduction to Photography (G-1) 3 hours

Instruction in use of the camera and light meter; study of elements that constitute good photo composition, darkroom techniques involving film development, negative enlargement and print finishing. Students supply their own 35mm cameras with adjustable f-stops and shutter speeds. A limited number of rental cameras are available. Two hours of lecture, three hours of laboratory each week. Supply lab fee of \$95 charged in addition to tuition.

JOUR 302. Broadcasting Techniques

3 hours

Introduction to audio production in the context of the broadcast station. Instruction in the technical aspects of production for radio and television. Techniques in announcing for a variety of program types including commercials, news, interviews, and talk shows.

JOUR 314. Broadcast News Writing (W)

3 hours

Prerequisite: JOUR 205 or consent of instructor.

Gathering information, interviewing, writing and editing for the broadcast media. Preparation of news and feature copy for release on the college radio station; instruction in writing spot announcements. (Alternate years)

JOUR 315. Photojournalism (G-1)

2-3 hours

Prerequisite: JOUR 225 or equivalent.

Advanced photographic and darkroom techniques with emphasis on photojournalism, creative use of the camera in producing photo essays, picture stories for publication and photo collections for exhibit. Students supply their own cameras with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week. Supply lab fee of \$95 charged in addition to tuition.

JOUR 316. Magazine and Feature Article Writing (W)

3 hours

Researching, writing and marketing the factual magazine piece and the newspaper feature article. Developing writing style through creative use of the English language.

JOUR 317. Broadcast Management

3 hours

Prerequisite: JOUR 201 and 302.

The 100,000-watt college radio station WSMC-FM 90.5 provides the setting in which students learn the principles of broadcast management as they apply to radio and television. Class members become familiar with day-to-day station operations, including control room procedures, announcing, production, broadcast news and programming. Professionals from both radio and television serve as lecturers. (Alternate years)

JOUR 327. Video Production

3 hours

Introduction to the basic procedures of producing non-studio video programs. Emphasis will be given to lighting, audio, and editing techniques. The student will make extensive use of portable video and video editing equipment. Supply lab fee of \$50 charged in addition to tuition.

JOUR 355. Reporting Public Affairs (W)

3 hours

Prerequisite: JOUR 205.

Reporting the actions of local, state and federal governments, politics, education, religion, economics, social and environmental issues, with emphasis on background research and investigative reporting. (Alternate years)

JOUR 297/397. Journalism Practicum 1-3 hours

Prerequisite: Consent of instructor.

Supervised work experience in print or broadcast journalism. At least 90 clock hours of work experience are required for each semester hour of credit. Arrangements are to be completed by the student in advance of the practicum after consulting with the instructor. Procedures and guidelines are available from the department. One-third regular tuition rate.

JOUR 423. Broadcast Programming 3 hours

Prerequisite: JOUR 201.

A study of audiences and audience research, programming theories, and formats used in modern broadcast program planning. Emphasis also given to current FCC regulations and policies governing the broadcast industry. (Alternate years)

JOUR 425. Reporting in Special Areas (W) 3 hours

Prerequisite: JOUR 205 or consent of instructor.

Writing interpretative articles and commentary after extensive research, interviews, and analysis. Based on interest and background, the student will select two of the following specialized areas in which to write: business and economics, education, religion, health, mass media, the arts, nature and the environment, government and society, recreation and entertainment, and science and technology. May be repeated once with different areas selected. (Alternate years)

JOUR 427. Mass Media Law and Ethics 3 hours

Study of the legal, ethical and constitutional issues affecting the media and the news gathering and dissemination process. Concepts of libel, privacy, free press, fair-trial, contempt of court, access to information, protection of sources, copyright law and government regulation of the media.

JOUR 165/465. Topics in Communication 1-3 hours

Selected topics in broadcast journalism, print journalism, public relations, or related areas of communication.

JOUR 487. History of Mass Communication (W) 3 hours

Development of the press in the United States from colonial times to the present, its influence on American government and institutions; rise of the mass media system, including newspapers, magazines, advertising, public relations, radio, television and the impact of the media system on society. (Alternate years)

JOUR 488. Mass Communication and Society (W) 3 hours

This seminar provides for informed student participation in the examination of the role and function of the mass media system in the United States; the concept of social responsibility as a constraint upon the media; ethical, social, economic and political issues involved in the function of newspapers, magazines, radio, television, advertising and public relations. Emphasis on reading, writing media critiques and on analysis of concepts and ideas. The course also includes an introduction to research methods for the study of mass communication. (Alternate years)

JOUR 295/495. Directed Study 1-4 hours

For students who want to do independent research and writing in a specialized area of the mass media. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

JOUR 497. Journalism Internship

3 hours

Prerequisite: Completion of half the requirements for a major or minor in broadcast or news editorial journalism and departmental approval.

Students work at a newspaper, magazine, broadcast station, or other agency to obtain on-the-job journalism experience, preferably during an eight to 12 week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Arrangements are to be completed by the student in advance of the internship after consulting with the instructor. Procedures and guidelines are available from the department. One-third regular tuition rate.

PUBLIC RELATIONS

PREL 234. Public Relations Principles and Theory

2 hours

Basic Public Relations principles, philosophy and theory as they relate to the historical development and contemporary practice of public relations; analysis of the public relations role in business, industry and non-profit organizations and of the functions and responsibilities of the public relations practitioner.

PREL 344. Fundamentals of Advertising

2 hours

Advertising theories and principles; fundamentals of advertising copy writing, layout and design. Overview of research and campaign planning for public relations and marketing. (Alternate years)

PREL 365. Public Relations Techniques

3 hours

Prerequisite: JOUR 205 and CPT 245/345.

Communications techniques used in public relations to identify and reach specified audiences through mass media channels and through controlled media. Preparation of press releases, brochures, newsletters, reports, audio-visuals, speeches and media campaigns; planning and conducting special events. (Alternate years)

PREL 368. Fund Development

1-3 hours

Study of fund-raising principles and concepts; techniques used in planning, organizing and carrying out a fund-raising campaign; developing prospect lists, writing proposals, identifying and training development leadership, working with foundations. (Every third summer)

PREL 297/397. Public Relations Practicum

1-3 hours

Prerequisite: Consent of instructor.

Supervised work experience in public relations. At least 90 clock hours of work experience are required for each semester hour of credit. Arrangements are to be completed by the student in advance of the practicum after consulting with the instructor. Procedures and guidelines are available from the department. One-third regular tuition rate.

PREL 406. Persuasion and Propaganda

3 hours

Historical origin and contemporary uses of propaganda; the concept of public opinion; motivational tools and techniques to achieve public response; characteristics of publics and how they are influenced. (Alternate years)

PREL 480. Case Studies in Public Relations

2 hours

The public relations function in the context of the organizational communications and decision-making process. Application of communications theory and techniques in developing both internal and external communications systems in terms of organizational nature and purpose; selected case studies. (Alternate years)

PREL 295/495. Directed Study

1-4 hours

For students who want to do independent research and writing in a specialized area of public relations, advertising or marketing. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

PREL 497. Public Relations Internship

3 hours

Prerequisite: Completion of half the requirements for a major or minor in public relations and departmental approval.

Students work at a public relations office, department or agency to obtain on-the-job public relations experience, preferably during an eight to twelve-week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Internship arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. One-third regular tuition rate.

WORKSHOPS

JOUR 175/475. Communication Workshop

1-3 hours

One semester-hour credit will be available for 40 clock hours of active participation in workshops conducted by the department in such areas as free-lance writing, news writing, video production, editing newsletters, crisis communication, public relations writing, fund raising, writing for student publications, editing student publications, and advising student publications. Advanced students may earn additional credits by completing a project started during the workshop. May be repeated for credit. (Summer)

MATHEMATICS

Chair: Lawrence Hanson
 Faculty: Robert Moore, Art Richert

Throughout recorded history mathematics and mathematical thinking have influenced man's culture to an extent that even many well-educated people fail to appreciate. *The Elements* of Euclid, the invention of a place-value numeration system, the invention of the calculus, the development of statistical inference, and more recently the development of computers, to name just a few, are mathematical contributions to civilization which have significantly affected the philosophies, commerce, science, and technology of mankind.

The Mathematics Department seeks to transmit this mathematical heritage to the students of Southern College by (1) introducing students to mathematical concepts and techniques and the disciplined, logical thinking required to successfully apply them to a variety of problem-solving experiences, (2) providing a stage of the formal education of professional mathematicians, (3) educating teachers of mathematics, and (4) providing appropriate courses for users of mathematics.

PROGRAMS IN MATHEMATICS

Major (B.A.): Thirty hours including MATH 181, 182, 200 or 319, 216, 218, 318, 411, and 485. CPTR 131 is a cognate requirement. Secondary certification requires MATH 215, 415.

Typical Sequence of Courses for B.A. MATHEMATICS

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	MATH 218	Calculus III	4	
MATH 181,182	Calculus I, II	3	4	MATH 216	Set Theory & Logic		2
CPTR 131	Fund Prog I	3		MATH 200	Elem Lin Algebra		2
	Area B, Religion		3		Area B, Religion	3	
	Area F-1, Behav Sci		3		Area C-1, History	3	3
	Area F-2, Family Sci				Area E, Science	3	3
	OR	2			Area G-1, Creat Skills		
	AREA F-3, Hith Sci				OR		2
	Area G-3, Rec	1			Area G-3, Recreation		
	Area D-1/Beg For Lang	3	3		Elective or Minor	3	3
		15	16			16	15

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
MATH 318	Algebraic Structures*	3		MATH 411	Inter Analysis*	3	
MATH	UD Elective		3	MATH	UD Elective		3
	Area B, Religion	3		MATH 485	Math Seminar*	1	
	Area C-2/Pol Sci/Econ	3			Area B, UD Religion	3	
	Area D, Lit/Fine Arts/				Electives or Minor	9	12
	Speech		3			16	15
	UD Electives		3				
	Electives or Minor	4	6				
		16	15				

*These courses may be offered during the 3rd or 4th year.

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including MATH 181, 182, 216, 218, 317, 318, 319, 411, 412, and 485. Cognate requirements are CPTR 131; PHYS 211-212, 213-214.

Typical Sequence of Courses for B.S. MATHEMATICS

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	PHYS 211-212	General Physics	3	3
MATH 181, 182	Calculus I, II	3	4	PHYS 213-214	General Physics Lab	1	1
CPTR 131	Fund Prog I	3		MATH 218	Calculus III	4	
	Area B, Religion		3	MATH 216	Set Theory & Logic		2
	Area F-1, Behav Sci		3	MATH	Elective		3
	Area F-2, Fam Sci				Area B, Religion	3	
	OR	2			Area C-1, History	3	3
	Area F-3, F.h Sci				Area G-1, Creat Skills		
	Area G-3, Recreational	1			OR	2	
	Electives	3	3		Area G-3, Recreational		
		15	16		Electives	4	
						16	16

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
MATH 318	Algebraic Structures*	3		MATH 411-412	Inter Analysis*	3	3
MATH 319	Linear Algebra*		3	MATH 485	Mathematics Seminar*	1	
MATH 317	Complex Variables*		3	MATH	Elective	3	3
MATH	Elective	3			Area D, Lang/Lit/F Art	3	3
	Area B, Religion	3			Area B, UD Religion	3	
	Area C-2, Pol Sci/Econ	3			Electives	3	6
	Area D, Lang/Lit/F Art		3			16	15
	Area E, Science		3				
	Electives	4	3				
		16	15				

*These courses may be offered during the 3rd or 4th year.

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including MATH 181 and six hours of upper division courses.

Certification to Teach: Secondary certification in Mathematics requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 149.

MATHEMATICS

MATH 080. Elementary Algebra (A-2) 3 hours (Non-Credit)

This remedial course covers the content of first-year high school algebra. It is required of all students who meet **NONE** of the following criteria: 1) ACT math composite score of 16 or above; 2) ACT math elementary algebra subscore of 8 or above; 3) high school Algebra II with a grade of C or better. Tuition for three semester hours will be charged for this course. (Fall, Spring, Summer)

MATH 090. Intermediate Algebra (A-2) 3 hours (Non-Credit)

Prerequisite: MATH 080 or exemption.

Number systems and their properties, exponents, and radicals, equations and inequalities, polynomial functions and their graphs, systems of equations, logarithms. Tuition for three semester hours will be charged for this course. (Fall, Spring, Summer)

MATH 103. Survey of Mathematics (A-2) 3 hours

Prerequisite: MATH 080 or exemption.

Basic concepts from the following topics: sets, mathematical logic, numeration systems, number theory, probability, statistics, algebra, geometry, metric system, consumer mathematics. This course does not apply on a major or minor in mathematics. (Fall, Spring)

MATH 120. College Algebra (A-2) 3 hours

Prerequisite: Two years of high school algebra or MATH 090.

The real and complex number systems; algebraic equations and inequalities; functions and their graphs including polynomial, rational, exponential, and logarithmic functions; conic sections. (Fall, Spring, Summer)

MATH 121. Trigonometry (A-2) 2 hours

Pre- or corequisite: MATH 120 or equivalent.

The trigonometric and inverse trigonometric functions and their graphs, trigonometric equations and identities, trigonometric form of complex numbers, applications. (Fall, Spring)

MATH 181. Calculus I 3 hours

Prerequisite: MATH 120 or a high school precalculus course.

Differential and integral calculus of the elementary functions (non-trigonometric) including limits, continuity, the derivative, computation of derivatives, applications of the derivative, the definite integral, the fundamental theorem of calculus, computation of antiderivatives, applications of the definite integral. (Fall, Spring)

MATH 182. Calculus II **4 hours**

Prerequisite: MATH 121 or equivalent and MATH 181.

Precise definitions of limits, calculus of the trigonometric functions, further topics in differential and integral calculus, polar coordinates, analytic geometry, parametric equations, sequences, infinite series, Taylor series, vectors. (Spring)

MATH 200. Elementary Linear Algebra **2 hours**

Prerequisite: MATH 181.

Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications. (Spring)

MATH 215. Statistics (A-2) **3 hours**

Prerequisite: An ACT mathematics standard score of 22 or above, or two years of high school algebra, or MATH 090, or MATH 103.

An introduction to descriptive and inferential statistics including organization and analysis of data, elementary probability, probability distributions (binomial, normal, Student's *t*, chi-square, *F*), estimation, hypothesis testing, correlation and regression, nonparametric statistics. (Fall, Spring)

MATH 216. Set Theory and Logic **2 hours**

Prerequisite: MATH 181.

An introduction to some of the basic ideas, terminology, and notation of logic and sets. The concept of a mathematical proof will be emphasized. (Spring)

MATH 218. Calculus III **4 hours**

Prerequisite: MATH 182.

Partial derivatives, multiple integrals, vector calculus including Green's theorem, Stokes's theorem, and the divergence theorem. (Fall)

MATH 280. Applied Mathematics for Computer Science **3 hours**

Prerequisite: MATH 120.

An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)

MATH 315. Differential Equations **3 hours**

Prerequisite: MATH 182.

Classification and solution of common types of ordinary differential equations, power series solutions, systems of linear differential equations, the Laplace transform, applications to problems in the physical sciences. (Spring)

MATH 316. Mathematics of Physics **3 hours**

Prerequisite: MATH 315.

Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)

MATH 317. Complex Variables 3 hours

Prerequisite: MATH 216, 218.

An introduction to the theory of analytic functions of a complex variable, including mappings by elementary functions, complex integration, the Cauchy Goursat theorem, Cauchy's integral formula, power series, Laurent series, the theory of residues, and conformal mapping. (Spring, odd years)

MATH 318. Algebraic Structures 3 hours

Prerequisite: MATH 216, 218.

The structure of groups, rings, integral domains, and fields. (Fall, even years)

MATH 319. Linear Algebra 3 hours

Prerequisite: MATH 181, 216.

Finite dimensional vector spaces and the attendant concepts of systems of linear equations, linear transformations, matrices, determinants, eigenvalues and eigenvectors. (Spring, odd years)

MATH 405. Numerical Analysis 3 hours

Prerequisites: MATH 218, 315, and a knowledge of programming.

Interpolation and approximation, numerical differentiation and integration, numerical methods of solving algebraic and differential equations, error analysis. (Spring, even years)

MATH 411-412. Intermediate Analysis 3,3 hours

Prerequisite: MATH 216, 218.

The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivative and integral, convergence and uniform convergence of sequences and series of functions, orderings. (Fall, odd years; Spring, even years)

MATH 415. Geometry 3 hours

Prerequisite: MATH 181, 216.

Topics selected from the following: foundations of Euclidean geometry, finite geometries, advanced Euclidean geometry, non-Euclidean geometry, geometric transformations, the geometry of inversion, projective geometry. (Fall, odd years)

MATH 465. Nursing Statistics 3 hours

Prerequisite: MATH 090, or 103, or equivalent and permission from the Department of Nursing and the Department of Mathematics.

Descriptive and inferential statistics with an emphasis on techniques and tests which are most often used in nursing research. Topics are selected from the following: organization and analysis of data, probability, various parametric and nonparametric probability distributions, estimation, hypothesis testing, correlation and regression. This course is designed for community registered nurses who are working on advanced degrees and is offered periodically at the request of the Department of Nursing.

MATH 485. Mathematics Seminar (W)

1 hour

Prerequisite: Permission of Mathematics staff.

Written and oral reports are made on a variety of topics in mathematics including topics in current mathematical literature. Mathematics majors obtaining secondary certification must choose topics in the history and philosophy of mathematics. (Fall, odd years)

MATH 295/495. Directed Study

1-3 hours

Prerequisite: Approval by department faculty.

Individual reading and problem solving in a field chosen in consultation with an instructor. This course may be repeated for credit. (On demand)

EDUCATION

EDUC 438. Curriculum and Content

Methods/Mathematics

2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks.

MODERN LANGUAGES

Chair: Helmut Ott

This department offers the opportunity for students to discover French, German, and Spanish not only as living languages but also as reflections of the cultures, customs, and peoples they represent. The aim, then, is to provide both an aesthetic background and a practical tool in the event the student becomes an overseas traveler or worker.

The ability to communicate with people is increasingly essential in today's shrinking world, and an acquaintance with a foreign culture should be part of the background of educated persons, particularly those with a sense of world mission. The Department of Modern Languages aspires toward helping Christians fulfill this responsibility to demonstrate good will, whether as travelers and business people or as respondents to the Master's gospel commission.

FOREIGN STUDY

Adventist Colleges Abroad. Southern College is a member of the consortium of colleges and universities which, under the auspices of the General Conference of Seventh-day Adventists, supports the Adventist Colleges Abroad program. ACA provides an opportunity for students of French, German, or Spanish to achieve proficiency in the foreign language amid the added advantages of an authentic cultural setting.

The following institutions are affiliates of ACA: In Austria, Seminar Schloss Bogenhofen, Braunau; in France, Seminaire Adventiste, Collonges-sous-Saleve; and in Spain, Colegio Adventista de Sagunto, Sagunto.

Most ACA students return with a minor in the language. Some, especially if they have completed the intermediate year before leaving for Europe, may need only one or two additional courses to complete a major when they return. A major or minor in the foreign language is not automatic. ACA students intending to fulfill major or minor requirements must counsel with the Modern Languages staff before drafting their overseas program.

BACHELOR OF ARTS DEGREE IN FRENCH, GERMAN, OR SPANISH

Major--French, German or Spanish: Thirty hours for the Bachelor of Arts degree, excluding course 101-102 but including course 211-212. Because the number of hours available on the Southern College campus is limited, students are expected to earn most upper division credits for a language major through ACA.

Minor--French, German or Spanish: Eighteen hours excluding course 101-102 but including course 211-212 and six hours of upper-division courses. Students desiring a language minor must earn all upper division credits either at ACA or in two summer terms in an intensive language program previously approved by this department.

BACHELOR OF ARTS IN INTERNATIONAL STUDIES (INST)

Major--International Studies: This major is intended to offer basic language and literature within a framework of international cultural dimensions. Such a program is sometimes considered a "humanities major." To complete this program in either French, German, or Spanish, students must spend at least one semester on an ACA campus overseas.

For the International Studies major, thirty hours are required, as listed below. A cognate requirement of RELT 368, Comparative Religions (3 hours), may be taken as one of the required general education courses (area B).

SPAN (or GRMN or FREN) 211-212 (Intermediate Level)	6 hours
Composition and Conversation	3 hours
Culture and Civilization	3 hours
Additional hours in language and literature, or the intermediate level of a second language	6 hours*
ENGL 445, World Literature	3 hours
ART 344, History of Art	3 hours
MUHL 115, Listening to Music	3 hours
HIST 386, or 389, or 354 - Rise of the West, or Vienna to Vietnam, or History of Latin America	3 hours
TOTAL	30 hours

*Students desiring endorsement in Spanish, French, or German must take these six hours in that language.

Certification to Teach: Secondary certification in Modern Languages requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 149.

SPECIAL COURSE

MDLG 295/495. Directed Study

1-3 hours

The content of this course will be adjusted to meet the particular needs of the individual student. It is particularly useful to ACA students who are unable to complete all the requirements for their major at the overseas campus. This course also includes credit offered by the Modern Languages Department on directed study tours. Approval of the instructor must be obtained prior to registration for the course.

FRENCH

FREN 101-102. Elementary French (D-1)

3,3 hours

Prerequisite: FREN 101, or equivalent.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level.

FREN 211-212. Intermediate French (D-1)

3,3 hours

Prerequisite: FREN 101-102, or two years of French in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (FREN 211 is offered Fall; 212, Spring)

GERMAN

GRMN 101-102. Elementary German (D-1)

3,3 hours

Prerequisite: GRMN 101, or equivalent, or one year of German in secondary school.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level.

GRMN 211-212. Intermediate German (D-1)

3,3 hours

Prerequisite: GRMN 101-102, or two years of German in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (GRMN 211 is offered Fall; 212, Spring.)

SPANISH

SPAN 101-102. Elementary Spanish (D-1)

3,3 hours

Prerequisite: SPAN 101, or equivalent.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level.

SPAN 211-212. Intermediate Spanish (D-1)

3,3 hours

Prerequisite: SPAN 101-102, or two years of Spanish in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult Spanish texts; oral and written exercises. Laboratory work is required. (SPAN 211 is offered Fall; 212, Spring)

EDUCATION

EDUC 438. Curriculum and Content

Methods/Modern Languages

2 hours

Prerequisite: Admission to Teacher Education.

Learning and teaching a foreign language, in both theory and practical application, with special attention to goals, planning, classroom techniques, selection and utilization of materials and aids, and evaluation of student performance.

(D-1), (D-2), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

MUSIC

Chair: Marvin L. Robertson

Faculty: J. Bruce Ashton, Orlo Gilbert, Judith Glass, Patricia Silver

Adjunct Faculty: Greg Bean, Devin Fryling, Elaine Janzen, Nora Kile, Jeff Lauritzen, Michael Moore, Jan Parisi, Mark Reneau, Betty Spencer

The faculty of the Department of Music believes that music is one of the arts given to man by his Creator to be used in the worship of God and to enhance the quality of man's life. In harmony with this philosophy, course work is offered which meets the needs of the general college student as well as music majors and minors.

The Department of Music offers two baccalaureate degrees, the Bachelor of Music degree in music education and the Bachelor of Arts degree in music. Both degrees require courses in music theory and history, as well as a high level of achievement in a major performance area. In addition, the Bachelor of Music degree emphasizes the skills necessary for teaching music, with special emphasis on the training of teachers for the Seventh-day Adventist school system.

ADMISSION REQUIREMENTS

Music majors must fulfill all the general admission requirements of the college. In addition, a prospective music major is required to take written and aural entrance examinations in music theory and a performance examination in the applied concentration. To obtain freshman standing as a music major the student must qualify for MUCT 111 and MUPF 189.

Further information regarding the entrance examinations may be obtained by writing the chairman of the Department of Music.

GENERAL REQUIREMENTS

Functional Piano: All music majors must pass a functional piano examination or pass four hours of piano secondary. (The latter may not be used as part of the applied music requirement in the Vocal/General Endorsement for teacher certification.) The functional piano examination includes the playing of hymns, scales, triads, arpeggios, several moderately easy compositions and accompaniments, and the harmonization of simple folk melodies. The functional piano examination should be passed during the first week of the first semester in residence or the student must register for applied piano instruction.

Applied Music Credit: One semester hour of credit will be given for fourteen half-hour lessons with a minimum of four hours of practice per lesson. Applied music concentration grades are assigned following a jury examination at the end of each semester.

Concert and Recital Attendance: Full-time music majors are required to attend twelve Department approved concerts per semester, except for the student teaching semester. Attendance shall include faculty and senior recitals in the student's applied concentration area. Failure to meet this requirement will nullify music major status.

Music Ensemble Participation: All music majors are required to participate in a music ensemble every semester in full-time residence (12 or more hours). During the student teaching semester, students are exempted from this requirement. Teacher certification candidates must, however, complete eight hours of appropriate ensembles. Appropriate ensembles are defined as follows: string majors, Symphony Orchestra; wind and percussion majors, Concert Band; voice majors, Southern Singers; keyboard majors, any of the above. Students are encouraged to participate in a variety of other ensembles as time permits.

Senior Recital: The candidate for the Bachelor of Music degree or the Bachelor of Arts degree will present a senior recital. The student must be registered for private instruction while preparing for the senior recital. Upon music faculty approval the senior recital requirement may be partially fulfilled through a conducting or chamber music performance.

A faculty audition of the complete program must be scheduled at least three weeks before the recital date. Unsatisfactory performance at this audition will result in a rescheduling of the recital date.

Senior Assessment Examination: During the senior year each graduating senior will take the nationally standardized Major Field Achievement Test. The results of this examination will be used to help determine the effectiveness of the music program and the competency level of the graduates.

JUNIOR STANDING

Music majors must apply for junior standing at the end of the sophomore year. The requirements for junior standing are as follows:

- An overall grade point average of 2.00 for the Bachelor of Arts degree and 2.25 for the Bachelor of Music degree.
- A grade point average of 2.50 in all music courses.
- Completion of the functional piano requirement.
- Completion of MUCT 111-112, 121-122.
- Completion of four hours of credit in the student's applied music concentration area.

Faculty evaluation of the application for junior standing will result in the student's receiving one of the following classifications: (a) Pass, Bachelor of Music; (b) Pass, Bachelor of Arts; (c) Probation; (d) Fail. Junior standing requirements must be met at least two semesters before graduation.

BACHELOR OF MUSIC CURRICULUM

The Bachelor of Music degree in music education meets state and denominational certification requirements. Students must apply for admission to the Teacher Education Program through the Department of Education and Psychology prior to taking education courses. Each student will be responsible to determine the additional courses that may be required for certification in the state of his/her choice. This information can be obtained at the Department of Education and Psychology.

State certification and graduation requirements for Music Education majors include passing the NTE Specialty Test in Music Education at the 480 level.

The following general education requirements apply only to students pursuing a Bachelor of Music degree:

A. Basic Academic Skills	9 hours
1. English	6 hours
2. Mathematics	3 hours
B. Religion	12 hours
1. Biblical Studies (RELB)	6 hours
2. Religion: RELT 188, 255	6 hours
C. History, Political and Economic Systems	9 hours
1. History	6 hours
2. Political Science and Economics	3 hours
D. Language, Literature, Fine Arts	3 hours
1. Foreign Languages (Intermediate level)	0-3 hours
2. Literature	0-3 hours
E. Natural Sciences	6 hours
1. Biology	0-3 hours
2. Chemistry	0-3 hours
3. Physics	0-3 hours
F. Behavioral, Family, Health Sciences	2 hours
1. Health Science: HLED 173	2 hours
G. Activity Skills	2 hours
1. Recreational Skills	2 hours
TOTAL	43 hours

Music Core:

MUCT 111-112	Music Theory I, II	6 hours
MUCT 121-122	Aural Theory I, II	2 hours
MUCT 211-212	Advanced Music Theory III, IV	6 hours
MUCT 221 222	Advanced Aural Theory III, IV	2 hours
MUHL 320-323	Music history courses	8 hours
MUPF 477	Instrumental Conducting Techniques	3 hours
MUPF 478	Choral Conducting Techniques	3 hours
MUCT 313	Orchestration and Arranging	<u>3 hours</u>
TOTAL		33 hours

Keyboard proficiency must be demonstrated by passing a piano proficiency examination. Four (4) hours of keyboard secondary may be used in lieu of the proficiency examination. The four hours of keyboard may not be used as part of the applied music requirement in the Vocal/General Endorsement.

Vocal/General Endorsement

A. Applied Music Concentration Voice

Applied Concentration	14 hours	
Appropriate Ensemble(s)	8 hours	
Vocal and General Methods including:		
MUED 231 Music & Movement	2 hours	
MUED 317 Voice Pedagogy	2 hours	
MUED Elective	2 hours	
MUED 439 Student Teaching Seminar	1 hours	
MUPF 227, 228 Singers Diction	<u>2 hours</u>	
TOTAL		31 hours

B. Applied Music Concentration Keyboard

Applied Concentration (Piano or Organ)	14 hours
Applied Concentration (Voice)	4 hours
Appropriate Ensemble(s)	8 hours
Vocal and General Methods including:	
MUED 231 Music and Movement	2 hours
MUED 317 Voice Pedagogy	2 hours
MUED 316 Piano Pedagogy (Piano Concentration)	
OR	
MUED 318 Organ Pedagogy	
(Organ Concentration)	2 hours
MUED 439 Student Teaching Seminar	1 hours
Service Playing (Organ Majors Only)	<u>2 hours</u>
TOTAL	33-35 hours

Instrumental Endorsement

Applied Music Concentration

(one instrument: wind, string, or percussion) 14 hours

Appropriate Ensemble(s) 8 hours

Secondary Instrument Instruction

(must include at least two areas, excluding keyboard) . . 6 hours

Instrumental Music Methods and Materials 6 hours

MUED 439 Pre-Student Teaching Seminar 1 hours

TOTAL **35 hours**

Vocal/General and Instrumental Endorsement

An applicant for endorsements in both areas above may complete a minimum of ten semester hours in methods and materials, provided both are represented.

Education Core:

Before taking education courses, the student must apply to the Education and Psychology Department for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Education and Psychology Department for admission to the professional semester.

EDUC 135 Introduction to Education 3 hours

EDUC 217 Psych. Foundations of Education 2 hours

EDUC 240 Education for Exceptional Child and Youth 2 hours

EDUC 250 Technology in Education 2 hours

EDUC 356 Tests and Measurements 2 hours

EDUC 421 Behavior Management 2 hours

EDUC 427 Current Issues in Education 2 hours

EDUC 432 Reading in Content 2 hours

EDUC 462 Organization and Leadership 1 hour

EDUC 468 Enhanced Student Teaching 7-12 8 hours

TOTAL **26 hours**

Typical Sequence of Courses for B.Mus. MUSIC EDUCATION

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
MUCT 111-112	Music Theory I, II	3	3	EDUC 217	Psych Found of Ed	2	
MUCT 121-122	Aural Theory I, II	1	1	EDUC 240	Except Child & Youth		2
ENGL 101-102	College Composition	3	3	MUCT 211-212	Adv Mus Theory III,IV	3	3
EDUC 135	Intro to Education	3		MUCT 221-222	Adv Aur Theory III,IV	1	1
MUPF 189	Applied Concentration	2		MUHL 320,321	History of Music	2	2
HIST	Area C-1, Elective	3		RELT 138	Adventist Heritage	3	
	Music ensemble	1	1	MUPF 189	Applied Concen Kybrd	2	2
RELT 255	Christian Beliefs		3	MUPF 189	Applied Concentration	2	2
MUPF 189	Applied Concentration		2		Music Ensemble	1	1
	Area C-2, Pol Sci/Econ		3	MUED 316/318	Organ or Piano Pedag		2
		16	16		Applied Concentration	2	
					Area G-3, Rec Skills		<u>1</u>
						16	16

<u>YEAR 3</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>
EDUC 356	Tests & Measurements	2	
EDUC 250	Technology in Educ		2
HLED 173	Health & Life	2	
MUHL 322,323	History of Music	2	2
MUCT 313/413	Orchestration & Arr		3
MUED 231	Music & Movement	2	
MUED 317	Voice Pedagogy	2	
MUPF 389	Applied Concentration	2	2
	Music Ensemble	1	1
RELB	Area B-1, Elective		3
	Area E, Nat Science	3	3
		<u>16</u>	<u>16</u>

<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>
	Foreign Language		3
EDUC 421	Behavior Mngmt		2
EDUC 427	Current Issues in Ed		2
MUPF 389	Applied Concen Kybrd		2
MUPF 477	Inst Cond Techn		3
MUPF 478	Choral Cond Techn		3
	Music Ensemble	1	1
RELB	Bible Elective		3
HIST	Elective		3
MATH	Elective		3
PEAC	PE Activity Elective		1
EDUC 432	Reading in Content		2
EDUC 462	Organization & Ldrshp		1
MUED 432	Student Tchg Sem		1
		<u>16</u>	<u>15</u>

<u>YEAR 5</u>	
EDUC 468	Enhanced Student Tchg 8

****NOTE:** Organ majors must take two hours of MUPF 279 Service Playing.

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements for the make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

BACHELOR OF ARTS DEGREE IN MUSIC

The Bachelor of Arts in music is a non-professional degree designed to give the student a broad understanding of the musical heritage of man.

Major: Forty hours including fourteen upper division hours and the following: Music Theory including MUCT 111-112, 121-122, 211-212, 221-222, 313 or 413; MUHL 320, 321, 322, 323; MUPF 189, 389 - Concentration; Music Ensembles.

A student must complete all general education requirements of the college.

The foreign language recommended is either French or German.

Typical Sequence of Courses for B.A. MUSIC

<u>YEAR 1</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>
MUCT 111-112	Music Theory I, II	3	3
MUCT 121-122	Aural Theory I, II	1	1
ENGL 101-102	College Composition	3	3
MUPF 189	Applied Concentration--		
	Instrument/Voice	1	1
	Music Ensemble	1	1
	Area A-2, Mathematics		0-3
	Area G-3, Recreation	1	
	Area B, Religion	3	
	Minor or Elective	2	6-3
		<u>15</u>	<u>15</u>

<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>
MUCT 211-212	Adv Theory III, IV	3	3
MUCT 221-222	Adv Aur Th III, IV	1	1
MUPF 189	Applied Concentration--		
	Instrument/Voice	1	1
	Music Ensemble	1	1
	Funct Piano Requirement		
	Area B, Religion	3	
	Area G-2 or G-3, Skills		2
	Area D-1, Foreign Lang		
	OR	3	3
	Lit/Fine Arts/Speech		
	Area C-1, History	3	3
	Minor or Elective		2
		<u>15</u>	<u>16</u>

Music

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MUHL 320,321	History of Music	2	2	MUHL 322,323	History of Music	2	2
MUPF 389	Applied Concentration	1	1	MUCT 313	Orch & Arr		
	Music Ensemble	1			OR		3
	Area B, Religion	3		MUCT 413	Analysis of Mus Form		
	Area E, Nat Science	3	3	MUPF 389	Applied Concentration	1	1
	Area F, Behav/Fam/				Senior Recital		
	Health Science	3	3		Area B, UD Religion	3	
	Area C-2, Pol Sci/Econ		3		Minor or Elective	<u>10</u>	<u>9</u>
	Minor or Elective	<u>3</u>	<u>4</u>			<u>16</u>	<u>15</u>
		16	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements for the make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Music Minor: Eighteen hours including the following:

MUCT 111-112	Music Theory I and II	6 hours
MUHL 115	Listening to Music	3 hours
MUPF 189	Concentration	2 hours
MUPF 477 or 478	Instrumental or Choral Conducting	
	Techniques	3 hours
Music Course Electives (including three hours upper division) ..		<u>4 hours</u>
		18 hours

MUSIC THEORY

MUCT 100. Introduction to Music Theory 2 hours

A study of the rudiments and basic vocabulary of music theory. Does not apply toward a music major or minor. This is a computer assisted course. (Spring, Summer)

MUCT 111-112. Music Theory I and II 3,3 hours

Prerequisite: MUCT 100 or examination.

A study of the elements which render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Fall, Spring)

MUCT 121-122. Aural Theory I and II 1,1 hours

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111-112. Music majors must take this concurrently with MUCT 111-112. This is a computer assisted course. (Fall, Spring)

MUCT 211-212. Music Theory III and IV 3,3 hours

Prerequisite: MUCT 111-112.

An expanded and intensified study of the structure of music as begun in MUCT 111-112. In MUCT 212, contemporary music is emphasized. (Fall, Spring)

MUCT 221-222. Aural Theory III and IV 1,1 hours

Keyboard and sight-singing applications of materials studied in MUCT 211-212. Music majors must take this concurrently with MUCT 211-212. This is a computer assisted course. (Fall, Spring)

MUCT 313. Orchestration and Arranging 3 hours

Prerequisite: MUCT 111-112.

The ranges, capabilities and limitations, and transpositions of orchestra and band instruments. Idiomatic scoring of short works for vocal and instrumental chamber groups, small orchestra, and band. Performance of exercises and analysis of scores is emphasized. (Spring, even numbered years)

MUCT 413. Analysis of Music Form 3 hours

Prerequisite: MUCT 211-212 or permission of instructor.

An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Fall, odd numbered years)

MUCT 295/495. Directed Study 1-3 hours

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the division chairman prior to registration. May be repeated up to a total of three hours. (Fall, Spring, Summer)

CHURCH MUSIC**MUCH 215. Music in the Christian Church (D-3) 2 hours**

An historical and philosophical survey of music in the Christian Church with particular emphasis on hymnology. (Spring)

MUCH 315. Church Music Materials and Administration 3 hours

The study of worship philosophies, denominational political hierarchies, liturgies, ensemble organization, appropriate music literature for performance and administrative procedures. Students are required to prepare service music for services of various denominations.

MUSIC HISTORY**MUHL 115. Listening to Music (D-3) 3 hours**

A course designed to acquaint the student with the major composers, musical styles, and forms of Western music. Two listening periods per week are required. Does not apply toward a music major. (Fall, Spring)

MUHL 320. Chant to Chanson, 600 to 1450 (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The development of musical style, beginning with plainsong and its notation, and continuing with the growth of polyphony and the appearance of secular forms. Special emphasis will be given to the evaluation of modern editions of music, particularly of the *Ars Nova*, and to investigation of problems in performance practice. (Fall, odd years)

MUHL 321. Frottola to Fugue, 1450-1700 (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor. National styles of composition throughout the Renaissance and the emergence of new ideas, particularly the monodic revolution and its resulting new form, opera. The development of the theory of common practice and the major changes in notational methods, as well as a survey of evolution of musical instruments during this period. (Spring, even years)

MUHL 322. Suite to Symphonic Poem, 1700-1900 (D-3) (W)

2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The centrality of sonata form as the basis of chamber and orchestral literature; the appearance of significant small forms (as the lied and the piano piece); the analysis of representative works from all major schools. (Fall, even years)

MUHL 323. Diverse Musical Systems, 1900-present (D-3) (W)

2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

A study of systems replacing tonality, including aleatoric and dodecaphonic to minimalistic; broadening of musical bases, such as the influence of folk music and non-Western theories. Projects suitable for this semester might include studies of women in music, American music, or minorities. (Spring, odd years)

MUHL 465. Topics in Music

1-3 hours

Selected topics in music presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

MUSIC EDUCATION

MUED 136. String Materials and Methods

2 hours

A study of the stringed instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Spring, even numbered years)

MUED 146. Brass Materials and Methods

2 hours

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Fall, even numbered years)

MUED 156. Woodwind Materials and Methods

2 hours

A study of tone production, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of the literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Spring, odd numbered years)

MUED 166. Percussion Materials and Methods

2 hours

A study of percussion instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Fall, odd numbered years)

MUED 231. Music and Movement:

A Sequential Approach

2 hours

A survey of the structure of music including music fundamentals, movement to music, performance skills, listening skills, and the integration of music into life activities.

MUED 316. Piano Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent.

Methods, materials, and procedures for private and class piano instruction; planning a complete program for pupils on various grade levels including technic, repertoire, and musicianship. Observation and teaching are required. (Fall, odd numbered years)

MUED 317. Voice Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent and permission of instructor.

Methods, materials, and procedures for private and class voice instruction; testing and classification of voices; physiological and psychological problems of voice production and diction. Observation and teaching are required. (Spring, odd numbered years)

MUED 318. Organ Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent.

Methods, materials, and procedures for instruction in organ; accompaniment of church services; registration of organ literature on various types of organs. Observation and teaching are required. (Fall, even numbered years)

MUED 439. Pre-Student Teaching Seminar 1 hour

Prerequisite: Admission to Teacher Education.

A seminar in which the student is oriented to student teaching, including curriculum, lesson planning, professional relationships, and other matters related to student teaching. (Spring)

APPLIED MUSIC

MUPF 108. Group Instruction (G-1) 1-2 hours

Beginning voice and beginning piano only. A minimum of four hours of practice and/or listening outside of class is required. (Fall, Spring)

MUPF 129. Secondary (G-1) 1-2 hours

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

MUPF 189. Concentration (G-1) 1-2 hours

Prerequisite: Performance examination for freshman standing.

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

MUPF 227. Singers Diction (G-1) 1 hour

A study of the pronunciation of English and Italian. (Fall, odd numbered years)

MUPF 228. Singers Diction (G-1) 1 hour

A study of the pronunciation of German and French. (Spring, even numbered years)

MUPF 279. Service Playing (G-1) 1 hour

Prerequisite: Two hours MUPF 189 (organ) or permission of instructor.

The development of skills requisite to playing both liturgical and non-liturgical services, including hymn playing, choral and solo accompanying, conducting from the console, improvisation and modulation, and selection of appropriate preludes, offertories, and postludes. Performance experience required. (Fall, Spring)

MUPF 329. Secondary (G-1) 1-2 hours

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

MUPF 389. Concentration (G-1) 1-2 hours

Prerequisite: Four hours MUPF 189.

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

MUPF 477. Instrumental Conducting Techniques (G-1) 3 hours

Prerequisite: MUCT 112 or permission of instructor.

Basic conducting techniques including beat patterns, cues, and expressive gestures, and instrumental problems. Experience in conducting instrumental ensembles is included. (Fall, odd numbered years)

MUPF 478. Choral Conducting Techniques (G-1) 3 hours

Prerequisite: MUCT 112 or permission of instructor.

Basic conducting techniques including beat patterns, cues, and expressive gestures, and vocal problems. Experience in conducting choral ensembles is included. (Spring, even numbered years)

Courses MUPF 108, 129, and 329 are open to any student of the College as elective credit toward the B.A. or B.S. degree. The music major or minor may not apply these toward his applied music concentration. Students desiring to study organ must pass the Functional Piano Examination.

Courses MUPF 189 and 389 are courses primarily for the music major and minor, but they may be elected by anyone who passes the examination for freshman standing. Jury examinations are required with these course numbers.

The following performance areas may be studied: voice, piano, classical guitar, folk guitar, organ, violin, viola, cello, double bass, flute, oboe, clarinet, saxophone, bassoon, trumpet, French horn, trombone, baritone tuba, and percussion instruments.

CHORAL ENSEMBLES

Choral ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at performances and rehearsals, including dress rehearsals, is required.

Ensembles for which academic credit is granted are organized and sponsored by the members of the music faculty.

MUPF 118/318. Schola Cantorum (G-1)

1 hour

A small mixed-voice choir which specializes in performing sacred music of the Renaissance, Baroque, and Romantic eras.

MUPF 148/348. Something Special (G-1)

1 hour

A small mixed-voice choir which performs both sacred and secular music in many styles. The music is frequently choreographed.

MUPF 158/358. Die Meistersinger Male Chorus (G-1)

1 hour

A male-voice choir which performs music of all styles and style periods.

MUPF 168/368. Southern Singers (G-1)

1 hour

A large mixed-voice choir which performs music of all style periods.

MUPF 188/388. Vocal Ensemble Experience (G-1)

1 hour

A course designed to provide credit for participants in major choral works, musical productions, and other department-sponsored vocal activities. This course does not fulfill the music ensemble requirement for music majors. (Fall, Spring)

INSTRUMENTAL ENSEMBLES

Instrumental ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at rehearsals is required.

Course numbers MUPF 178 and 378 do not fulfill the music ensemble participation requirement for music majors except those taking a keyboard concentration. Music majors other than those taking a keyboard concentration who wish Instrumental Ensemble Experience credit must be registered concurrently in Concert Band or Symphony Orchestra.

Ensembles for which academic credit is granted are organized and sponsored by members of the music faculty.

MUPF 128, 328. Concert Band (G-1) 1 hour
(Fall, Spring)

MUPF 138, 338. Symphony Orchestra (G-1) 1 hour
(Fall, Spring)

MUPF 178, 378. Instrumental Ensemble Experience (G-1) 1 hour
A course designed to provide credit for chamber ensembles or, in the case of keyboard majors, significant accompanying experience. (Fall, Spring)

(D-3), (G-1), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

NONDEPARTMENTAL COURSES

COOP 265/465. Cooperative Education

1-6 hours

This course allows students in any department to receive credit for professional experience in the workplace. The work must be planned as part of the specialty fields of participating students' college programs rather than prior experience. Except for specifically designed programs, all internships are conducted as cooperative education. An academic credit hour requires a minimum of 40 but no more than 60 work hours. A maximum of six credit hours is available in cooperative education. Unless specifically excepted, a student may apply no more than six credit hours of cooperative education to a major. Departments that offer credit in cooperative education must design a system to supervise and monitor participating students. The plan must describe the type and length of experiences in which students will engage, the supervisory and monitoring roles of the academic department and the work establishment, and methods of evaluating students' performance.

FDNT 125. Nutrition (F-3)

3 hours

This class is administered by the Nursing Department.

A general education course introducing a student to the basic principles of human nutrition. Includes study of the nutrients and the requirements for different age groups and normal physiological conditions. Attention will be given to religious and sociological influences, taking particular note of the counsel of E. G. White. (Fall, Spring)

FRSH 101. Freshman Year Experience

3 hours

This class is administered by the Behavioral Science Department.

A course designed for all freshmen, focusing on the theory and practice of attitudes and skills necessary to adjust to college life. Class assignments include but are not limited to the study of career choices, academic skills, time relationships with peers and professors, management, and sources of assistance to resolve problems common to a Christian campus. All freshmen are encouraged to enroll.

HMNT 205. Arts and Ideas (D-3)

3 hours

This class is administered by the History Department.

A cultural appreciation class tracing the historical evolution of intellectual movements in western civilization. Ideas from leaders in philosophy and the arts will be studied with appropriate works from music, art, and literature. Students may participate in activities involving specific art forms. Resource persons may assist as available. This course is also taught as part of the European study tour program during selected summer sessions.

HMNT 150/350. International Travel

1 hour

One hour credit is offered to participants in Southern College cultural exchange programs that include tours outside the United States. The trip must last a minimum of seven days excluding air travel to and from the tour location. The itinerary must include a minimum of 20 hours in museums, historical sites, concerts, drama, and guided sightseeing to qualify for one hour credit. Students will submit written summaries/reflections of their learning experiences. Credit for this course is not granted simultaneously with credit earned in other tour classes.

HMNT 451, 452. Honors Seminar**1,1 hour**

This class is administered by the History Department.

A study of great books in religion, philosophy, science and social science that have shaped western culture. Required of students in the Southern Scholars program during their junior or senior year. Open to other students with permission of department chair.

LIBR 125. Reference (G-2)**1 hour**

This class is administered by the McKee Library faculty.

Designed primarily for student library assistants. The course presents the basic concepts of library services and the skills needed for efficient use of library materials. The student will be required to complete eight separate modules of study pertaining to the organization of the library and the use of general and special reference works commonly found in a college library. This course is required of all library workers. (Fall, Spring)

LIBR 325. Library Materials for Children**3 hours**

This class is administered by the Education and Psychology Department.

Presents to the student a knowledge of a wide variety of books and related materials for children, grades 1-8. Develops an appreciation for books and reading that can be enthusiastically transmitted to young readers through critical evaluation and selection of books and materials. Correlates the use of books and materials to the specific needs and interests of young readers. (Fall)

LIBR 425. Library Materials for Young Adults and Adults**2 hours**

This class is administered by the English and Speech Department.

Gives emphasis to the variety of books and related materials for grades 9-12. Correlates critical evaluation and selection to the interests, use, and specific needs of the young adult as he develops his reading habits and skills. Develops an appreciation for books and readings that can dynamically involve both young adults and adults. (Fall)

NOND 227-228. Christian Service I, II**6,6 hours**

This class is administered by the Vice President for Academic Administration in cooperation with the College Chaplain.

Prerequisite: RELP 099.

This course is a two-semester sequence designed specifically for students who participate in the North American Division Task Force program and those who work in countries outside the United States as part of the Student Mission Program. The course consists primarily of field work. To receive twelve credit hours students must (1) complete a full academic year in a consistent, planned program of service characterized by opportunities for Christian witnessing and (2) fulfill reading assignments. Other academic activities may be designated as part of the course requirements. Periodic reports by both the participating students and supervisors are required. Students who withdraw from the program must complete a full semester and the reading assignments to receive six hours of credit. This course is for elective credit only. Students pay ten percent tuition. The policy for tuition refunds applies. The date the college receives notification of withdrawal will be the official withdrawal date. This class is not open to students who have received credit for RELP 101, Student Missions Orientation. This class may not be repeated.

NURSING

Chair: Katie Lamb

Collegedale Faculty:

Pam Ahlfeld, Leona Gulley, Dawn Holbrook, Dorothy Hooper, Shirley Howard, Bonnie Hunt, Barbara James, Callie McArthur, Laura Nyirady, Kathy Schleier, Shirley Spears, Jean Springett, Judy Winters

Orlando Faculty (Through 1992-93):

Nancy Crist, Flora Flood, Cheri Galusha, Millie Muniz, Joy Parchment, Erma Webb

The nursing program at Southern College is a 2+2 program that leads to a baccalaureate degree in nursing with the option to exit at the associate degree level. The holders of an associate degree from a state approved program in nursing may progress into upper division nursing. Licensed diploma graduates and associate degree graduates from a non-NLN accredited program will be evaluated on an individual basis.

The curriculum in the lower division leads to an Associate of Science degree in nursing which may be completed in two academic years, plus summer courses. At this time the student is eligible to write state board examinations to become a registered nurse.

A well-equipped learning center and a skills laboratory are provided to assist students in learning experiences.

ASSOCIATE AND BACCALAUREATE PROGRAMS

The curriculum in the upper division provides the student an in-depth study in clinical nursing in addition to prescribed courses. Diploma graduates will be required to participate in validation procedures designed to evaluate their previous program of study.

A new class is accepted for lower division in the fall semester of each year with a limited number of students due to available clinical facilities and teachers. The upper division class is not limited in size.

CONSORTIUM BACCALAUREATE PROGRAM

The program enables registered nurses employed on a full-time basis at a member hospital to obtain a baccalaureate degree on a part-time basis. All upper division nursing classes are offered in the evening. One course is offered each fall and winter semester and one course during a summer session for a given group. This program is offered at the Orlando Center. **Note: The consortium program on the Collegedale campus is being phased out. No new students will be**

admitted. Only certain courses will be offered in the evening until the 1992-93 academic year.

Admission and progression criteria are the same as the campus-based baccalaureate program with the following exceptions:

1. **Math requirement:** Math requirement is waived for RN/BS students.
2. **Residence requirements:** The requirement that the last 30 semester hours must be taken in residence has been adjusted to allow the consortium students to take general education courses, with the exception of Christian Ethics, at another college concurrently with clinical nursing courses.
3. **Transfer work:** 72 semester hours from a college are allowed which will include 68 hours for the equivalent of an Associate Degree plus six semester hours of Biochemistry.
4. **Religion:** Three hours are permitted to be taken at a local college or university. Three hours Christian Ethics (RELT 373) must be taken at Southern College.
5. **Consortium students auditing consortium classes** will be charged one-half the tuition rate for the consortium class.

POLICIES

Students who are admitted to Nursing are considered adequately mature to realize the importance of accepting personal responsibility for their learning and professional behavior.

The Department of Nursing Student Handbook contains the policies of the department. Each student contracts to abide by the regulations as outlined. The programs on the main campus and all extension campuses are governed by the same policies.

Transportation for clinical appointments is not provided for the students enrolled in upper division nursing courses. Students will be expected to provide their own transportation or make arrangements to share this expense with fellow students in the same course.

Because regular tuition charges and fees cannot cover the total cost of nursing education, an additional fee is charged as a "Nursing Education Fee" each semester to help offset the cost (see Special Fees and Charges under Financial Policies section of bulletin).

The Tennessee State Board of Nursing and other State Boards reserve the right to deny licensure in their states if the applicant has an unresolved felony on record in any state. The Nursing Department reserves the right to deny admission to or remove students from the nursing program who have records of misconduct, legal or otherwise, that would jeopardize their professional performance.

The Nursing Department reserves the right to revise, add, or withdraw courses as necessary to ensure a quality nursing program.

ACCREDITATION

The programs in nursing are fully accredited by the National League for Nursing. They are recognized by the Board of Regents of the Department of Education of the General Conference of Seventh-day Adventists and approved by the Tennessee Board of Nursing.

ASSESSMENT OF MAJORS

The Department of Nursing has an ongoing assessment program. Each AS degree student is required to write standardized NLN examinations at specific intervals. Upon completion of the required nursing courses, a comprehensive nursing examination is given. The national NCLEX-RN licensure examination is written upon graduation. The Tennessee State Board of Nursing requires an annual pass rate of 86% for first time writers on the NCLEX-RN licensure examination in order for a school to be eligible for continued approval.

PROGRAMS IN NURSING

Major (B.S.): Thirty-four hours for the Bachelor of Science degree after completion of the Associate of Science degree at Southern College or the equivalent* including NRSG 320, 325, 326, 327, 335, 389, 484, 485, 497, 498. Cognates: RELT 373; SOCI 349; CHEM 111, 112, 114. MATH 215 Statistics is a required course but is not considered a cognate. General education requirements include an additional three hours Area B, three hours Area C or D, three hours Area D, and one hour area G-3 to make a total of 124 semester hours of which 40 hours are upper division.

*Graduates of a state-approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program, with the exception of history/humanities and English. If Area C-1 or ENGL 101-102 courses were not included in the associate degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements. A maximum of 72 semester hours will be accepted from a college where the highest degree offered is the associate degree.

Major (A.S.): Thirty-four hours for the Associate of Science degree including NRSG 104, 105, 114, 115, 213, 215, 217, 320. Cognates: BIOL 101-102, 225; PSYC 128; SOCI 125; FDNT 125. General education courses for Areas A, B, C, E, and F are the same as for the other disciplines of the college. Students are exempt from general education courses for Areas D and G. A total of 68 semester hours is required for the Associate of Science degree.

Typical Sequence of Courses for A.S. AND B.S. NURSING

The first two years of the program lead to the Associate of Science degree and the last two years to the Bachelor of Science degree. Must include at least 68 semester hours for the associate and 124 (40 of which are upper division) for the baccalaureate degree, and make-up of any admissions deficiencies. Note: NRSB 320, either earned or by waiver, is a required course for all B.S. students.

<u>SUMMER</u>				<u>YEAR 2</u>		<u>Semester</u>	
						<u>1st</u>	<u>2nd</u>
BIOL 101	Anatomy/Physiology I	3		ENGL 102	College Composition	3	
				NRSB 213	Childbearing Family	4	
				NRSB 215	Parent-Child Nursg	4	
				NRSB 217	Mental Health	4	
				SOCI 125	Sociology		3
				NRSB 320	Med-Surg III		6
					Area B, Religion		3
					Area C-1, History		3
						15	15
<u>YEAR 1</u>		<u>Semester</u>					
		<u>1st</u>	<u>2nd</u>				
ENGL 101	College Composition	3					
FDNT 125	Nutrition	3					
BIOL 102	Anatomy/Physiology II	3					
NRSB 104	Intro to Nursing	1					
NRSB 105	Foundations of Nursg	5					
NRSB 114	Med-Surg I		5				
NRSB 115	Med-Surg II		5				
BIOL 225	Microbiology		4				
MATH	(If ACT below 22)		3				
		15	17				
<u>SUMMER</u>				<u>PREREQUISITE TO YEAR 3</u>			
PSYC 128	Area B, Religion	3		CHEM 111	Survey of Chemistry	3	
	Developmental Psych	3		(NRSB 320)	Medical-Surgical III	6	
		6					
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
NRSB 326	Prof Concepts/Issues	2		NRSB 335	Comm Health Nursg	6	
NRSB 327	Nursing Assessment	4		NRSB 497	Nursg Research Mthd (W)	3	
MATH 215	Statistics	3			Area C/D	3	
	Area G-3, PE	1			Elective	2	
RELT 373	Christian Ethics	3		NRSB 389	Pharmacology		2
CHEM 112	Survey of Chemistry		3	NRSB 484	Trends/Nursg Practice		3
CHEM 114	Survey of Chem Lab		1	NRSB 485	Management		3
NRSB 325	Adv Physiology		4	NRSB 498	Seminar (W)		1
	Area B, Religion		3		Area D		3
SOCW 349	Aging & Society (W)		3			14	12
		13	14				

LOWER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS

Minimum requirements for admission to the clinical area of the Department of Nursing are listed below. The final decision on acceptance and continuation in nursing is made by the Department of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Department of Nursing.

1. Acceptance to Southern College and hold a diploma from a four-year accredited high school or the equivalent.
2. High school grade point average of 2.50* minimum on solids (math, science, English, history, foreign language).
3. A student who does not meet the high school chemistry requirement must remove this deficiency by taking CHEM 111 before entering into nursing courses and earning a "C-" or better.
4. Minimum ACT standard enhanced score of 16 in Math and 19 in English and composite.
5. A student who does not meet the high school grade point average or ACT requirements may take a minimum of 12 semester college hours per semester in required courses leading to nursing (including three hours each of English and Math) and achieve a current and cumulative grade point average of at least 2.50* on nursing cognate courses and on solid courses (math, science, English, history, foreign language) before being considered for clinical nursing courses.
6. No more than two courses may be repeated. Only one may be a nursing course.
7. A grade of at least C (2.00) is required in each nursing course for progression and/or graduation. A grade of at least "C-" is required in each nursing cognate with a minimum cumulative grade point average of at least 2.25* in the cognates for admission and progression in nursing. (Cognate courses are Anatomy and Physiology, Nutrition, Developmental Psychology, Microbiology, and Sociology.)
8. Science credits (A&P, Chemistry, Microbiology, Nutrition) earned more than eight years prior to admission will not be accepted. Applicants may choose to validate knowledge by examination or by repeating the course.
9. Students who for various reasons are not able to complete a semester or do not progress with their class, cannot be assured placement in their choice of subsequent class.
10. If a lapse of time greater than two years occurs in a student's program of study, prior nursing credits will not be accepted unless an applicant can validate nursing knowledge through written examination and clinical performance.
11. A cumulative grade point average of at least 2.25 is required both in nursing and in the cognates for graduation.

*On a 4.00 scale

12. Students with previous college work must have a minimum current and cumulative grade point average of 2.50* on nursing cognate courses and on solid courses (math, science, English, history, foreign language) before being considered for clinical nursing courses.
13. Students whose native language is other than English must achieve at least 90 on the Michigan English Proficiency Test or its equivalent.
14. Achieve a score of 20th percentile on the Nelson-Denny reading test prior to admission.
15. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work and/or delay in progression in the program will be required if performance level is not achieved.
16. Transfer students from another major or another college, following application to the Nursing Admissions Committee, will be evaluated individually and accepted on a space available basis.
17. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department Chair.
18. The applicant must show evidence of physical, mental, and moral fitness. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
19. A student who has successfully completed a practical nurse program and NRSB 103, Associate Nurse Perspectives, may receive five (5) credit hours of advanced placement in nursing and will articulate directly into the second semester of nursing. Prerequisites for NRSB 103 include passing the Nursing Mobility Profile I examination at a predetermined level and a clinical skills examination over basic skills common to all areas of nursing. After the student articulates into the second semester of nursing, the student becomes a part of the generic associate degree program.

The following should be sent by April 10 to the Director of Admissions: (1) application to the college, (2) application to the Department of Nursing, (3) transcripts, (4) ACT scores. Upon acceptance to the clinical nursing program, students are required to send an advance payment of \$250 to hold their placement in the class. This payment also serves as the first semester's Nursing Education Associate Degree Fee and is in addition to the regular Advance Payment of \$1,650. It is the applicant's responsibility to see that all application materials are in the Nursing Department prior to the deadline.

CURRICULUM (First and Second Year)

Completion of these requirements leads to an Associate of Science degree and eligibility to sit for state board examinations.

Number of Hours Required:

Nursing 34

Natural Science 13

Behavioral Science 6

General Education 15

NURSING**NRSG 103. Associate Nurse Perspectives****1 hour**

Prerequisite: Successful completion of the following: an approved LPN program; Nursing Mobility Profile I Examination; examination over basic skills common to all areas of nursing.

This course is designed to supplement and prepare the Licensed Practical Nurse for advanced placement and career mobility.

NRSG 104. Introduction to Nursing**1 hour**

An introduction to the profession of nursing, including an overview of nursing history, nursing organizations, educational, legal and ethical issues, and opportunities of the profession. It will provide an understanding of the associate nurse role, familiarize the student with philosophy of spiritual care, and give an orientation to the program and its philosophy and conceptual framework. Open to nursing majors not yet accepted into clinical courses. (Fall)

NRSG 105. Foundations of Nursing**5 hours**

Prerequisites: Chemistry (high school or equivalent), BIOL 101.

Co-requisites: FDNT 125; BIOL 102; NRSG 104.

This course is an introduction to the physical, psychosocial, and spiritual aspects of health care. The student develops an understanding and utilization of the nursing process, and acquires basic nursing skills common to all areas of nursing with an emphasis on the adult life cycle. Three hours theory, two hours clinical. (Fall)

NRSG 114. Medical-Surgical Nursing I**5 hours**

Prerequisites: BIOL 102; FDNT 125; NRSG 104, 105.

This course provides students with the theory and practice of nursing which include selected basic needs of adults at various points on the wellness-illness continuum. This includes focusing on those with selected medical-surgical problems. The nursing process is utilized to promote physical, psychosocial, and spiritual health, intervene in illness, and assist in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSG 115. Medical-Surgical Nursing II **5 hours**
Prerequisites: NRSG 114; BIOL 102.

This course provides students with the theory and practice of nursing continuing with adult needs at various points on the wellness-illness continuum. This includes focusing on the nursing process as applied to individuals experiencing select medical/surgical interferences of increased complexity; promoting physical, psychosocial, and spiritual health; intervening in illness; and assisting in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSG 213. Nursing of the Childbearing Family **4 hours**
Prerequisites: NRSG 115; PSYC 128.

This course provides nursing students with theory and practice in the care of childbearing families. This includes promoting physical, psychosocial, and spiritual health of expectant mothers and their infants before, during and immediately following delivery, utilizing the nursing process. Two and one-half hours theory, one and one-half hours clinical. (Fall)

NRSG 215. Parent-Child Nursing **4 hours**
Prerequisites: PSYC 128; NRSG 115.

This course provides nursing students with the theory and practice of family-centered care of children at different points on the wellness-illness continuum. Two and three-fourths hours theory, one and one-fourth hours clinical. (Fall)

NRSG 217. Mental Health **4 hours**
Prerequisites: NRSG 115; PSYC 128.

This course provides students with the opportunity to utilize the nursing process in intervening with clients throughout the life span with emphasis on specific psychosocial needs at different points on the wellness-illness continuum. Two and one-half hours theory, one and one-half hour clinical. (Fall)

NRSG 320. Medical-Surgical III **6 hours**
Prerequisites: BIOL 225; NRSG 213, 215, 217.

This course provides students with theory and practice of utilizing the nursing process in dealing with complex needs related to psychosocial, physical, and spiritual aspects of individuals who have acute medical-surgical interferences. The student is introduced to leadership concepts. Three hours theory, three hours clinical. (Spring)

UPPER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS**Admissions:**

All students wishing to enter the upper division nursing courses must send an application to the department's Coordinator of Admissions. The final decision on acceptance and continuation in nursing is made by the Department of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Department of Nursing. Upon acceptance to upper division nursing, courses currently listed in the catalog will be required of all students.

Diploma graduates are required to successfully complete validation examinations at a specified level to receive college credits for prior nursing learning. **The examinations must be taken prior to registering for any nursing courses.**

Southern College's A.S. graduates prior to 1991 and transfer students from other A.S. programs must take a validation examination in order to receive advanced credit for NRSG 320, Medical-Surgical III. **The validation examination must be taken prior to beginning upper division nursing courses.**

Students are responsible for the cost of taking the examination(s) and the fee charged by the college for recording advanced credit on the transcript.

Minimum requirements for admission to upper division nursing are as follows:

1. Acceptance to Southern College.
2. Minimum grade point average of 2.25 for lower division courses in nursing with no grade below a "C".
3. Minimum cumulative grade point average of 2.25 with no grade below "C-" for lower division cognate courses.
4. Students whose native language is other than English must achieve at least 90 on the Michigan English Proficiency Test or its equivalent. If the student fails to achieve the above score, he must take remedial work in written and spoken English and repeat the proficiency test, achieving the above score before entering the nursing program.
5. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department Chair.
6. The applicant must show evidence of moral, physical, social, and intellectual maturity. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
7. Students will maintain a current CPR certificate throughout their upper division program.
8. Eligibility for Licensure: Applicants to be considered for admission to junior standing in nursing must either have a current license to practice as a registered nurse in the U.S. or, if a new graduate or foreign student, must be eligible to sit for state boards. A student must pass NCLEX-RN examinations before registering for NRSG 484 and 485.

9. Experience:

A. Applicant who has graduated within five years prior to application.

1. Satisfactory clinical performance and character references are required from basic nursing program.
2. Satisfactory work performance and character references are required from employer(s). Students who have graduated within the previous twelve months will be exempt from the work requirement.

B. Applicant who has graduated more than five years prior to application.

1. Minimum of one year satisfactory work experience in nursing for each five years since graduation and one year must be in the last five years.
2. Satisfactory work performance and character references are required from the nurse supervisor(s).

10. Nursing Credit:

Graduates of state approved schools will be evaluated on an individual basis. A maximum of 28 semester hours of nursing credit may be given provided that criterion #2 has been met. Advanced nursing credit will be received after successful completion of the required validation examination(s).

11. General Education and Cognates:

A. Associate Degree.

Graduates of a state approved associate degree program will be considered to have met general education requirements for the first two years of the program with the exception of History/Humanities and English provided that criterion #3 has been met. If Area C-1 or ENGL 101, 102 courses were not included in the associate degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements.

B. Diploma Graduate.

1. Credit is acceptable for courses comparable to those required at Southern College if received from an accredited senior or junior college or by examination according to the policy stated in the CATALOG.
2. All cognates for the first two years must be completed before entering junior nursing courses. General education requirements may be taken concurrently.

C. CHEM 111 must be completed before entering junior level nursing courses.

12. Progression:

A. No more than two courses may be repeated. Only one may be a nursing course.

- B. A grade of at least C (2.00) is required in each nursing course for progression and graduation. A grade of at least C- is required in each nursing cognate with a minimum cumulative grade point average of at least 2.25* in the cognates for admission, progression, and graduation in nursing. (Cognate courses are CHEM 111-112 and 114; RELT 373; SOCI 349.

CURRICULUM (Third and Fourth Years)

Students must take a total of 124 hours required for graduation including 40 hours upper division.

Number of hours required after completion of the associate degree in nursing:

Nursing 34	Natural Sciences 7
Behavioral Science 3	General Education 13
Mathematics 3	Electives 2

NURSING

NRSRG 320. Medical-Surgical III

6 hours

Prerequisites: BIOL 225; NRSRG 213, 215, 217.

This course provides students with the theory and practice of utilizing the nursing process in dealing with complex needs related to psychosocial, physical, and spiritual aspects of individuals who have medical-surgical interferences. The student is introduced to leadership concepts. Three hours theory, three hours clinical. (Spring)

NRSRG 325. Advanced and Pathologic Principles of Human Physiology

4 hours

Pre- or corequisite: CHEM 112/114.

This course assists the student to integrate principles of physiology with clinical practice, to correlate physical manifestations with pathologic interferences, and to move toward more independent predictive care of clients. Four hours theory. (Spring)

NRSRG 326. Professional Concepts and Issues

2 hours

Prerequisite: NRSRG 320

A course designed to assist the registered nurse student in the transition of learning from an associate degree or diploma program to the baccalaureate approach to nursing. Focus will be on the development and presentation of concepts and current issues related to professional nursing. In order to meet the objectives of the course, a field trip may be required. (Fall)

NRSB 327. Nursing Assessment**4 hours**

Pre- or corequisite: NRSB 326.

This course provides opportunities for creativity in the utilization of the expanding role of the clinical practitioner and enables the student to develop advanced skills in utilizing the nursing process through history taking, physical examination, health planning, and counseling of the patient/client. Three hours theory, one hour clinical. Two all-day clinical experiences are required. (Fall)

NRSB 335. Community Health Nursing**6 hours**

Pre- or corequisites: NRSB 326, 327; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families, and communities toward their optimal level of functioning on the wellness-illness continuum. This course combines community and mental health concepts. Three hours theory, three hours clinical. (Spring)

NRSB 346. Community Health Nursing**3 hours**

Prerequisites: NRSB 326, 327; MATH 215 (desirable).

A course which includes concepts of community health, with emphasis on community assessment and working with groups. Two hours theory, one hour clinical. (Orlando Center only)

NRSB 347. Community Health Nursing**3 hours**

Prerequisites: NRSB 346; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families and communities toward their optimal levels of functioning on the wellness-illness continuum. This course combines community and mental health concepts. One hour theory, two hours clinical. (Orlando Center only)

NRSB 389. Pharmacology**2 hours**

Prerequisites: CHEM 111 and CHEM 112/114.

Study of pharmacologic concepts. Focus will include major classifications, pharmacokinetics, drug interactions, and nursing consideration. Two hours theory. (Fall)

NRSB 484. Current Practice Trends

Prerequisites: Senior standing and hold an RN license.

This course provides opportunity for the student to select an area of specialized interest in which to develop a broader scope of clinical competence. The choices of clinical areas may be limited due to the number of students in the semester. Content will focus on updating major theoretical areas and clinical skills. One and one-half hours theory, one and one-half hours clinical. (Spring, arranged as needed for consortium students).

NRSB 485. Management**3 hours**

Prerequisites: NRSB 326, Senior standing and hold an RN license.

This course provides the opportunity for the student to use independent judgment in developing beginning management skills. This goal will be accomplished primarily through the leadership modes, management and administrative experiences in selected clinical areas. Two hours theory, one hour clinical. In order to meet the objectives of the course, a field trip may be required. (Spring, arranged as needed for consortium students.)

NRSRG 497. Nursing Research Methods (W)**3 hours**

Prerequisites: MATH 215; ENGL 102.

Scientific methods of inquiry are applied to nursing problems including framework for practice, principles of data treatment, and analysis. The student plans a research proposal. The course is designed to give the student the concepts, methods, and tools for intelligent participation in and application of research and evaluation. Three hours theory. (Fall)

NRSRG 498. Seminar (W)**1 hour**

Prerequisite: NRSRG 497.

A course designed for written and oral reports on topics in the nursing field. A student may elect to complete the research proposal required in NRSRG 394, Nursing Research Methods. One hour theory. (Spring, arranged as needed for consortium students.)

NRSRG 295/495. Directed Study**1-3 hours**

Prerequisite: Approval of department chair.

Individual study in an area of choice shall be worked out with the department prior to registration. Either upper or lower division credit may be earned. The area of directed study will appear on the transcript. No more than six hours directed study may be applied toward a degree.

(W) See pages 47-49 and 51-55 for explanation of General Education requirements.

THE ORLANDO CENTER**ASSOCIATE DEGREE PROGRAM**

The associate degree program is being phased out. No new students will be admitted. Southern College will grant diplomas to students who complete graduation requirements during the 1992-93 academic year.

BACHELOR OF SCIENCE**(With a Major in Nursing)**

A part-time program is offered. Admission and progression requirements are the same as those on the main campus (see CATALOG pp. 254-257). All diplomas and official transcripts are issued from the parent campus.

For information contact:

Southern College of SDA
Department of Nursing
711 Lake Estelle Drive
Orlando, FL 32803

or

Linda Marlowe
(615) 238-2941

PHYSICS

Chair: Ray Hefferlin

Faculty: Orville Bignall, Henry Kuhlman

Employment opportunities for SC physics-major graduates have been, and continue to be, excellent. Many physics professors in American universities will retire in the next decade, and replacements will be sought. The Seventh-day Adventist Church may soon be needing more science professors for its expanding system of colleges outside of North America. Secondary school teachers who can teach physics should be in even greater demand. Industry and health care systems depend, for new advances, on graduates who understand physics as well as engineering and medical procedures.

Careers of SC physics graduates are depicted by the advanced degrees which they earn. During the 30 years from May of 1956 to May of 1986, 57 B.A. and B.S. degrees in physics were awarded by Southern College. The 57 physics majors earned five M.A. and M.S. degrees in physics and (with no overlap in persons) eight Ph.D. degrees in physics. They earned five M.A. and M.S. degrees in other areas of science and mathematics (or in the education of the same topics), five Ph.D. degrees in these areas, and one post-doctoral degree in chemistry. They earned six M.D. degrees, two D.D.S. degrees and one J.D. degree.

Careers of SC physicists can also be seen by finding how these same physics graduates devoted their years of work. They gave 57 percent of their person-years to physics and closely related fields. If computer-related work is included, they devoted 70 percent. They served much of the remaining 30 percent of their person-years in the medical arts. The fraction of time devoted to the service of the Seventh-day Adventist Church, as measured by employment in the Church, was 25 percent. Most of this 25 percent was in secondary and college-level education.

ASSESSMENT OF MAJORS

Physics majors must sit for the physics area test of the Graduate Record Examination, and must submit the test results to the Physics Department.

PROGRAMS IN PHYSICS

Major (B.A.): Thirty hours including PHYS 310, 311-312, 313, 316, 412, 413, and 480. Computer courses are strongly recommended. TECH 114, 115, 174, ENGR 149, and PHYS 400 are also recommended.

Typical Sequence of Courses for
B.A. PHYSICS
(Starting Odd Years)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	PHYS 211-212	General Physics	3	3
PHYS 155	Descrip Astronomy		3	PHYS 213-214	General Physics Lab	1	1
MATH 181	Calculus I	4		CPTR 218	FORTTRAN (or Pascal)	3	
MATH 182	Calculus II		3	MATH 218	Calculus III	3	
MATH 216	Set Theory & Logic		2	MATH 315	Differential Equations	3	
	Area B, Religion	3			Area D-1, For Lang	3	3
	Area C-1, History	3	3		Area C-2, Pol Sci/Econ	3	
	Minor or Elective	3	2		Area B, Religion	3	
		16	16	MATH 319	Linear Algebra	3	3
						16	16
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
PHYS 310	Modern Physics	3		PHYS 480	Scientific Wrtg	1	
PHYS 313	Physical Optics		3	PHYS 311-312	Gen Physics Cal Appl		2
PHYS 411	Thermodynamics	3		MATH 316	Math of Physics	3	
PHYS 412	Quantum Mechanics		3	MATH 317	Complex Variables	3	
PHYS 413	Analytic Mechanics	3			Area B, UD Religion	3	
PHYS 495	Directed Study		1		Area D, Lit/F Arts/Spch	3	
TECH 115	Arc Welding	1			Area F-1, Behav Sci	3	
TECH 174	General Metals		3		Area F-2, Fam Sci		3
	Area B, Religion		3		OR	3	
	Area G-3, Rec Skills	1			F-3, Health Science		
	Area E-1, E-2, or E-4	3			Minor or Elective	7	14
	Minor/Area E/ or Elective	2	3			14	14
		16	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Typical Sequence of Courses for
B.A. PHYSICS
(Starting Even Years)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	PHYS 211-212	General Physics	3	3
PHYS 155	Descriptive Astronomy		3	PHYS 213-214	General Physics Lab	1	1
MATH 104	Intermediate Algebra	3		PHYS 311-312	Calculus Applications		2
MATH 114	Precalculus		4	MATH 181	Calculus I	4	
CPTR	Pascal, FORTRAN, or C	3		MATH 182	Calculus II		3
	Area B, Religion	3		CPTR	Elective		3
	Area C-1, History	3	3		Area B, Religion	3	
	Area F-2, Fam Science				Area D-1, For Language	3	3
	OR		3		Area G, Creat/Rec Skls	2	
	Area F-3, Hlth Science				Minor or Elective		1
		15	16			16	16

PHYSICS

<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
PHYS 310	Modern Physics	3		PHYS 313	Optics		3
PHYS 495	Directed Study			PHYS 411	Thermodynamics	3	
	OR		1	PHYS 412	Quantum Mechanics		3
PHYS 497	Undergrad Research			PHYS 413	Analytical Mechanics		3
MATH 218	Calculus III	3		PHYS 480	Scientific Writing	1	
TECH 174	General Metals		3	MATH 485	Math Seminar		1
AUTO 114	Oxy-Acetylene Welding	1		TECH 115	Arc Welding		3
	Area B, Religion		3	ENGR 149	Engineering Graphics	2	
	Area C-2, Pol Science/ Economics		3		Area B, Religion (W)		3
	Area D-2, Lit/E Arts	3			Minor or Electives	5	3
	Area F-1, Beh Sci		3			15	15
	Area G-3, Rec Skills	1					
	Area E-1, E-2, or E-4	3					
	Minor or Elective	1	3				
		15	16				

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including PHYS 310, 311-312, 313, 316 (satisfied by MATH 316), 412, 413, 414-415, 418-419, and 480. Computer courses are strongly recommended. TECH 114, 115, 174; ENGR 149, 150, 211-212 are desirable.

Typical Sequence of Courses for B.S. PHYSICS (Starting Odd Years)

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition	3	3	PHYS 311-312	Gen Phys Calc Appl		2
PHYS 211-212	General Physics	3	3	PHYS 310	Modern Physics	3	
PHYS 213-214	General Physics Lab	1	1	PHYS 411	Thermodynamics	3	
MATH 181	Calculus I	4		PHYS 412	Quantum Mechanics		3
MATH 182	Calculus II		3	MATH 218	Calculus III	3	
MATH 216	Set Theory & Logic	2		MATH 315	Differential Equations	3	
	Area C-1, History	3	3	CPTR 218	FORTTRAN (or Pascal)	3	
	Area G-1 or G-3, Skls	2			Area B, Religion		3
		16	15		Area D-2, Literature		3
					Area G-3, Rec Skill	1	
				MATH 319	Linear Algebra		3
						16	14
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
PHYS 313	Physical Optics		3	PHYS 414-415	Electricity & Magnet	3	3
PHYS 413	Analytical Mechanics	3		PHYS 495	Directed Study	1	
PHYS 418-419	Advanced Quan Mech	3	3	PHYS 480	Scientific Writing		1
	Area B, Religion	3	3	MATH 316	Math of Physics	3	
TECH 115	Arc Welding	1		MATH 317	Complex Variables		3
	Area F-2, Fam Science			TECH 174	General Metals		3
	OR		2		Area E-1/E-2/or E-4 Sci		3
	Area F-3, Hith Sci				Area B, UD Religion	3	
	Area D-4, Speech		3		Area D, Lang/Fine Art	3	
PHYS	Elective		5		Area F-1, Beh Sci		3
	Area E-1, E-2, or E-4	3			Area C-2, Pol Sci/Econ	3	
		15	17			16	16

See pages 47-49 and 51-55 for general degree and general education requirements.

**Typical Sequence of Courses for
B.S. PHYSICS
(Starting Even Years)**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Composition*	3	3	PHYS 155	Descriptive Astronomy		3
PHYS 211-212	General Physics	3	3	PHYS 310	Modern Physics	3	
PHYS 213-214	General Physics Lab	1	1	PHYS 313	Optics		3
PHYS 311-312	Calculus Applications		2	MATH 216	Set Theory & Logic		2
MATH 181	Calculus I	4		MATH 218	Calculus III	3	
MATH 182	Calculus II		3	MATH 315	Differential Equations		3
CPTR	Pascal, FORTRAN, or C		3	TECH 149	Mechanical Drawing	2	
TECH 114	Oxy-Acetyl. Welding	1			Area B, Religion	3	
TECH 115	Arch Welding		1		Area C-1, History	3	3
	Area B-1, Religion	3			Area E-2, Gen Chem	3	3
		15	16			17	17
<u>YEAR 3</u>		<u>Semester</u>		<u>YEAR 4</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
PHYS 411	Thermodynamics	3		PHYS 413	Analytical Mechanics	3	
PHYS 412	Quantum Mechanics		3	PHYS 418-419	Adv Quant Mech	3	3
PHYS 414-415	Electricity & Magnet	3	3	PHYS 495	Directed Study	2	
PHYS 316	Math of Physics	3			OR		
MATH 317	Complex Variables		3	PHYS 495	Undergraduate Research		1
MATH 319	Linear Algebra		3	PHYS 480	Scientific Writing		1
	Area B, Religion	3		MATH 411,412	Inter Analysis	3	3
	Area C-2, Pol Sci/Econ	3		MATH 485	Math Seminar		1
	Area D-2, Fine Arts		3		Area B, Religion	3	
	Area F-1, Beh Science		3		Area D-2,Lit/Fine Arts	3	
	Area G-3, Rec Skills	1			Area F-2, Fam Sci		
		16	18		OR		2
					Area F-3, Health Science		
					Area G-1, Creat Skills		3
					Electives		3
						17	14

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including six hours upper division.

Certification to Teach: Secondary certification in Physics requires a baccalaureate degree and completion of professional education courses for licensure. See explanations in the Education and Psychology section, beginning on page 149.

The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively.

PHYSICS**PHYS 137. Introduction to Physics (E-3)****3 hours**

A general education course stressing the methods of physics, the application of physics and laboratory work which can be done with simple materials. Laboratories include the use of calculators and the computer to do arithmetic, the estimation of numerical quantities and errors, and the construction of apparatus with which to make observations. Satisfies the requirements for some Allied Health fields at some schools; does not apply on major or minor in physics. Two hours lecture, three hours laboratory each week.

PHYS 155. Descriptive Astronomy:**Creation and Cosmology (E-3)****3 hours**

Constellations and eclipses, astronomical instruments, time and the date line and calendars, astronomical objects with their motions and distances, energy processes in stars and quasars and pulsars, black holes, the infinity (?) and expansion (?) of the universe. Cosmology, the formation and subsequent histories of the solar system and the earth, radioactive and radiocarbon age dating. Life on other worlds. Astronomy and the Bible. This course, dealing as it does with the physical aspects of the history of the earth and universe, complements BIOL 424 (Issues in Natural Science and Religion), which deals with the biological aspects. Three hours lecture each week, with the occasional substitution of an observation period. (Fall)

PHYS 211-212. General Physics (E-3)**3,3 hours**

Prerequisite: MATH 114.

The algebraic and trigonometric treatment of mechanics, heat, sound, light, electricity and magnetism, and "modern physics." Applies on the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 213-214. (Fall, Spring)

PHYS 213-214. General Physics Laboratory (E-3)**1,1 hours**

Prerequisite: Previous or concurrent enrollment in PHYS 211-212.

Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. (Fall, Spring)

PHYS 310. Modern Physics**3 hours**

The theory of relativity, nuclear physics. Three hours lecture each week. Laboratory experience is available in PHYS 495. (Fall)

PHYS 311-312. General Physics Calculus Applications**1,1 hours**

Prerequisites: MATH 181 and previous or concurrent enrollment in PHYS 211-212.

Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211-212 and PHYS 311-312 will have taken the equivalent of General Physics with calculus. Two class periods per week. (Spring)

PHYS 313. Physical Optics 3 hours

Prerequisites: PHYS 211-212; MATH 182.

Refraction, reflection, interference, and absorption of light are discussed from the standpoint of the ray and especially of the wave theories of light. Laboratory experience is available in PHYS 495. (Spring, even years)

PHYS 316. Mathematics of Physics 3 hours

Prerequisite: MATH 315.

Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)

PHYS 317. Issues in Physical Science and Religion I (E-3) 3 hours

Prerequisite: One year of high school physics or chemistry or one semester of college physics or chemistry.

The extent to which mathematics and the physical sciences are true because they conform to the real world, or because they are derived from axioms, or because they conform to one's understanding of Scripture. Non-logical factors in the acceptance of scientific statements as authoritative. Application of the scientific method to technology-related problems of global significance. Does not apply to a major or minor in Physics.

PHYS 318. Issues in Physical Science and Religion II (E-3) 3 hours

Prerequisites: One year of high school physics or chemistry or one semester of college physics or chemistry.

The argument for the existence of God from design. The relationship of design to comprehensibility and to causality. Causality in the everyday world and on the subatomic scale. Miracles as associated with awe or with the unknown (by determinists), or with boundary conditions (as in solving problems mathematically), or with God's continual upholding of natural process. Does not apply to a major or minor in Physics.

PHYS 400. Physics Portfolio 1 hour

Each student majoring in Physics may compile a portfolio consisting of records of participation in professional activities as suggested by departmental faculty and as initiated by the student. Examples of activities include but are not limited to the following: attendance at club meetings, professional film showings, visiting-scientist seminars, and research review sessions, reading of journals and books, participation at professional meetings, preparation for graduate school and for employment, and lists of concepts or new ideas. The portfolio is reviewed upon the student's registration for this course during the senior year. The grade earned for this credit will depend upon the persistence of the student in participation during his/her stay at Southern College and during summers, and upon the breadth and depth of the entries. It also depends upon the student having his/her portfolio reviewed by the Department at the end of each preceding semester, and the extent to which the Department's suggestions on those occasions are implemented.

PHYS 411. Thermodynamics 3 hours

Prerequisites: CPTR 131 or 218; PHYS 311-312; MATH 315 or permission of instructor.

A study of gases, kinetic theory, liquids, solids, and thermodynamics. Three hours of lecture each week. (Fall, even years)

PHYS 412. Quantum Mechanics**3 hours**

Prerequisites: PHYS 311-312; MATH 315 or permission of instructor; CPTR 131 or 218.

The limits to classical physics, wave packets, the Schroedinger equation, eigenfunctions and eigenvalues, one-dimensional potentials. Equivalent to chapters 1-5 of Gasiorowicz plus the solution of the Schroedinger equation in spherical-polar coordinates for the hydrogen atom. (Spring, odd years)

PHYS 413. Analytic Mechanics**3 hours**

Prerequisites: PHYS 310 and 311-312; MATH 182, 218, 315 (MATH 316, 317, 318, 319, 411-412 desirable).

The motion of a particle in gravitational and other classical fields is attacked using the techniques of differential equations. The behavior of systems of particles, solids, and liquids is discussed. Special functions, vector theorems, transforms, and tensors are introduced as needed. Laboratory experience is available in PHYS 495. (Fall, odd years)

PHYS 414-415. Electricity and Magnetism**3,3 hours**

Prerequisites: PHYS 310 and 311-312; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable).

Analysis of electrical circuits. Electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electromagnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used after being introduced or reviewed. Laboratory experience is available in PHYS 495. (Fall, even years; Spring, odd years)

PHYS 418-419. Advanced Quantum Mechanics**3,3 hours**

Prerequisites: PHYS 310 and 311-312; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable)

The structure of quantum mechanics; review of the Thomson, Bohr, and Fermi-Thomas models; operator methods; operators, matrices, and spin; time-independent perturbation theory; corrections to the hydrogen-atom treatment; other atoms and the periodic table; emission and absorption of radiation from atoms; collision theory; elementary particles and their symmetries (Equivalent to much of the material after Gasiorowicz, chapter 6). (Fall, odd years; Spring, even years)

PHYS 480. Scientific Writing (W)**1 hour**

Principles and techniques of writing for news releases, periodicals, and research journals. The student must have done some original research of an experimental, computational, or theorem-proving nature before enrolling in this course. PHYS 295/495 and 297/497 exist to fulfill this requirement. (Fall)

PHYS 295/495. Directed Study**1-3 hours**

Prerequisite: Consent of instructor.

This course consists of individual or group work adjusted to meet particular needs in Physics. Approval must be secured from the instructor prior to registration. This course may be repeated for credit. (Fall, Spring)

PHYS 297/497. Undergraduate Research in Physics 1-2 hours

Prerequisite: Permission of instructor.

Research under direction of a member of the staff. The topic will be assigned in accordance to the interests and capabilities of the student. May be repeated for up to four hours. This course may be repeated for credit. (Fall, Spring)

EARTH SCIENCE**ERSC 105. Earth Science (E-4) 3 hours**

A non-mathematical and qualitative introduction, for non-science majors, to the areas of physical geography, geology, and meteorology. Special consideration is given the environment-conservation and pollution of natural resources. (Fall, Spring; Laboratory offered Fall)

ERSC 106. Earth Science Laboratory (E-4) 1 hour

Prerequisite: Previous or concurrent enrollment in ERSC 105.

Laboratory to accompany ERSC 105. Laboratory not offered after Fall, 1992.

EDUCATION**EDUC 438. Curriculum and Content Methods/Physics 2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, the survey and evaluation of textbooks.

(E-4), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

RELIGION

Chair: Jack J. Blanco

Faculty: Douglas Bennett, Ron du Preez, Norman R. Gulley, Donn Leatherman, Derek J. Morris, Ronald M. Springett

Adjunct Faculty: Gordon Bietz, Mark Bresee, N. R. Dower, Gordon M. Hyde, Ken Rogers, Leo Van Dolson

Advisory Council--Ministerial Recommendations: SC Religion Faculty, Presidents of Conferences within the Southern Union, Southern Union Ministerial Directors, Vice President for Student Services, Director of Student Finance and Accounts, the head deans of the two dormitories, the college chaplain, and the college church pastor

As an integral part of Southern College the Religion Department has been given the responsibility by the Board of Trustees to prepare young men and women for various church ministries. It also has been asked to provide general religion courses for all students. These courses are designed to enhance their commitment to Jesus Christ and their involvement in the mission of the Seventh-day Adventist Church.

Philosophy and Objectives

The department's philosophy is based on the Scriptures being the supreme authority which forms the basis of all theological understanding and moral values. This includes the following concepts: that a personal God exists who created mankind in His own image as a free moral agent; that human beings have misused their freedom and sinned against God; and that the only way to full restoration is through Jesus Christ.

One of the earliest and continuing objectives for operating a Seventh-day Adventist college is to provide the church with a trained ministry. Closely allied to that is the objective of training effective Bible teachers for Adventist academies and colleges. Currently it is felt that the college also should make available to students pursuing careers such as medicine, dentistry, law, architecture, and other professional disciplines, a general major in Religion that will provide them with a biblical framework. In addition, it is the objective of the department to offer religion courses that will help all students in their spiritual formation.

In recognition of these needs, the Department of Religion offers three alternative programs in the major: Church Ministry, Teaching Ministry, and General. The departmental objectives for each of these programs are outlined below.

CHURCH MINISTRY

1. To provide an adequate pre-Seminary training in biblical backgrounds, languages, history, theology, and church ministries to meet entrance requirements to the M.Div. degree program offered by Andrews University.
2. To provide instruction and practical experience in church ministries and public evangelism as outlined in the requirements of the Certification for Ministry.
3. To provide professional training that prepares graduates to serve the church effectively in their chosen career.

TEACHING MINISTRY

1. To prepare the student for state and church certification (in cooperation with the Department of Education and Psychology) on the elementary or secondary levels.
2. To support candidates in meeting the requirements of the Education and Psychology Department and its certifying officer by offering a course in Curriculum and Content Methods/Bible and by supervising student teaching.
3. To qualify students to pursue graduate work in biblical and religious studies.

RELIGIOUS STUDIES

1. To provide a basic course in biblical and religious studies without meeting the professional requirements of the other two majors.
2. To provide a major for students who are involved in pre-professional programs or who elect a double major, one of which is Religion.
3. To prepare students to become well-informed, local church leaders.

GENERAL EDUCATION COURSES

1. To provide instruction in the Scriptures that enhances an intelligent faith in Jesus Christ.
2. To encourage development of a set of values that will provide a basis for moral decision-making in the Christian life.
3. To acquaint the students with the teachings, history, and global mission of the Seventh-day Adventist Church.

DEPARTMENTAL ASSESSMENT

Faculty Assessment

Effectiveness of the department's faculty or program is directly or indirectly assessed by:

1. Student evaluations of all classes administered regularly through the office of the Vice President for Academic Administration.
2. Departmental majors in the final semester of their senior year.
3. The annual meeting of the faculty with the Chair of the Board and the presidents of conferences within the Southern Union.
4. The yearly meeting of the Ministerial Training Advisory Committee (MTAC) of the North American Division at the Seventh-day Adventist Theological Seminary of Andrews University which coordinates the ministerial programs of all Religion Departments through their respective chairs.

Student Assessment

The quality of the department's graduates as well as its general students is assessed by:

1. A 16PF taken by all religion majors in their sophomore and senior years with norms arrived at by extensive research of the performance of successful Adventist pastors. If a student's scores differ greatly from these norms, the faculty member assigned to administer the test meets with the student to discuss potential difficulties and to suggest strategies for improvement.
2. The 16PF also provides the department with a personal evaluation of students. It is the intention of the evaluation program to help students realize their personal goals and maximize their potential. This may involve referral to a professional for personal or career counseling.
3. Classes in Homiletics, Church Ministry, Interpersonal Ministry, and the Summer Field School of Evangelism measure the student's proficiency in those areas. A performance evaluation is submitted by the instructor(s) and kept in the students' files for future reference.
4. A cumulative record of each student's activities is kept as a source of information and recommendation. This record includes attendance at lectureships, departmental assemblies, retreats, SMA activities, and other programs sponsored by the department.
5. The religion portion of the annual assessment testing program is prepared by the General Education Committee, not by the Religion Department, and is administered to all students through the office of the Vice President for Academic Administration.

Note: A summary of the evaluations referred to above will be made available in the form of a check sheet to prospective employers who request it and will be signed by the department chair on behalf of the Religion faculty.

PROGRAM REQUIREMENTS

Admission to Church Ministries Program

Students seeking admission to the Church Ministries Program must make formal application the first semester of the sophomore year. (Upper class transfer students must apply during the first semester in residence.) A program of evaluation precedes individual advancement to ministerial candidacy. The various assessment profiles will assist the student and the faculty adviser in evaluating and counseling together during the period of specialized training. If at any time, after being admitted to the church ministries program, candidates give evidence of failing to maintain commitment to the criteria or preparation for ministry, they forfeit their candidacy and the department's recommendation to the ministry. Students applying for candidacy must have 55 hours with a 2.50 overall GPA and have taken the department's 16PF to be eligible for recommendation. Applications are available at the Religion Center.

Directed Field Education

The department requires field education of Church Ministry majors. These experiences are designed to enhance professional development by acquainting the student with the multi-faceted responsibilities of church ministry, to provide a laboratory for working with experienced pastors and lay leaders in visitation of both active and inactive members, and to allow experience in preaching to area congregations. These experiences are necessary before the student can be recommended by the department for church employment.

Summer Field School of Evangelism

Full-scale evangelistic meetings will be conducted for two months each summer under the direction of the Southern Union Conference of Seventh-day Adventists and the Department of Religion. All church ministry majors are required to participate in one such crusade. The department will offer six hours of academic credit in public and personal evangelism and the Southern Union will provide a scholarship for those who are approved by the faculty to participate. Students planning to take the Summer Field School program must have 55 hours with a 2.5 cumulative GPA and RELP 321, 322 to be recommended for admittance. Applications and scholarship information may be obtained

from the departmental secretary. Additional evangelistic opportunities for individual students and student teams may be made available upon approval of the department to accommodate requests from the conferences within the Southern Union.

Admission to Teacher Education Program

The teaching ministry program is coordinated with the Department of Education and Psychology for the college. Planning for certification by the states and/or endorsement by the Seventh-day Adventist church for Bible teaching is made with the certifying officer of the Education and Psychology Department, both for admission to the Teacher Education program in the sophomore year and to the professional semester before the senior year.

The criteria for admission to Teacher Education, requirements for secondary Bible teaching, and policies and procedures related to student teaching may be found in the college catalog under the Department of Education and Psychology and obtained from the secretary of the department in Summerour Hall.

Teacher Certification and Endorsement

Those seeking Tennessee State Certification only must select 12 hours from RELB courses. Those seeking to add Denominational Teaching Endorsement to their certification must take RELT 138, 255, 484, 485, and HLED 173. All students seeking certification in religion must take EDUC 438, Curriculum and Content Methods/Bible, regardless of whether they had other special methods courses. Application for certification must be made with the Department of Education and Psychology before the end of the sophomore year.

Admission to Religious Studies

The General Religion major (Religious Studies) is chosen by students interested in pursuing a degree in Religion, other than a ministerial degree, or by students preparing for professional fields such as medicine, dentistry, law, and other graduate studies.

It is a 124-hour liberal arts major and provides a balanced selection of both biblical studies and theology courses. The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the hours needed for the major, thus reducing the number of extra courses needed to qualify.

Ministerial students who are 35 years old and, because of unusual circumstances, wish to take the General Religion major and be recommended for ministry, must take an Applied Theology minor and other courses as specified by the department. They will be admitted as ministerial candidates if they meet the criteria as recommended by

their adviser, and their individualized study program is approved by the Religion Department.

GENERAL EDUCATION COURSES IN RELIGION

The objective in all religion courses is to enhance knowledge of and appreciation for the Scriptures, and to assist the student in gaining and maintaining a vital involvement with Jesus Christ, and a personal commitment to serve family, church, community, and the world. Six semester hours of religion are required of the two-year graduate, and 12 semester hours of the four-year graduate. This is equivalent to one three-year course per year which may be selected from any of the religion courses offered. Bachelor degree students must take at least three semester hours at the upper division level. (Detailed information on General Education requirements are found in the college catalog.)

JERUSALEM STUDIES

The Department of Religion recognizes the Jerusalem Center for Biblical and Archaeological Studies as an educational service of the Seventh-day Adventist Church that provides study of the Scriptures and related subjects to full-time students and others in the unique setting of Jerusalem. Faculty from the Religion Department of Southern College are participant lecturers. The Center offers undergraduate and graduate work, as well as non-credit seminars on a scheduled basis.

Although it serves as a center for instruction, the Center does not offer degrees or grant academic credit on its own authority. Under a cooperative agreement with Adventist schools of higher learning, the offerings for each term at the Jerusalem Center are planned as a full-credit unit suitable for degree programs in colleges and universities. Information about the Center and its programs may be obtained from the secretary of the Religion Department.

GRADUATION REQUIREMENTS

The candidates for graduation in the program for Church Ministry must have a 2.00 overall, a 2.25 in their major and in the area of candidacy in order to graduate, and a 2.50 overall for Seminary entrance. In addition they must qualify for certification in ministry by giving evidence of moral, physical, social, and intellectual fitness. They must also demonstrate emotional maturity, and professional commitment, in order for the department to recommend them as prospective ministerial employees. Those students pursuing the Teaching Ministry must have a 2.00 overall and a 2.50 in education and in the field of certification as outlined by the Department of Education and

Psychology. The Religious Studies candidates for graduation, from the Department of Religion, must have a cumulative grade point average of 2.00 overall and a 2.25 in their major as outlined in the college catalog.

BACHELOR OF ARTS DEGREE IN RELIGION

The B.A. degree in Religion requires courses in biblical studies and religion of which three are introductory with others covering the Old and New Testament, the prophetic books of Daniel and Revelation, and the Fundamental Beliefs of Seventh-day Adventists in the light of Christian Theology.

Major--Ministers, Teachers, Religious Studies Major: 33 hours

RELB 125	Life and Teachings of Jesus	3 hours
RELT 138	Adventist Heritage	3 hours
RELB 265	Biblical Exegesis	3 hours
RELB 345	Old Testament Studies I (W)	3 hours
RELB 346	Old Testament Studies II	3 hours
RELB 435	New Testament Studies I	3 hours
RELB 436	New Testament Studies II (W)	3 hours
RELB 425	Studies in Daniel (W)	3 hours
RELB 426	Studies in Revelation	3 hours
RELB 484	Christian Theology I	3 hours
RELT 485	Christian Theology II	<u>3 hours</u>
TOTAL		33 hours

Major--Church Ministry: 33 hours in major plus 18 hours in Biblical Languages, 24 hours for certification for Ministry, and cognate requirements as follows:

MINOR IN BIBLICAL LANGUAGES:

RELL 271-272	Elements of New Testament Greek I,II	4,4 hours
RELL 311-312	Inter. New Testament Greek I,II	3,3 hours
RELL 471-472	Biblical Hebrew I,II	<u>2,2 hours</u>
TOTAL		18 hours

CERTIFICATION FOR MINISTRY:

RELT 265	Spiritual Formation	1 hour
RELP 321	Introduction to Preaching	2 hours
RELP 322	Expository Preaching	2 hours
RELP 353	Interpersonal Ministry I	3 hours
RELP 423	Biblical Preaching	2 hours
RELP 424	Evangelistic Preaching	2 hours
RELP 451-452	Church Ministry I, II	3,3 hours
RELP 465	Personal Evangelism	3 hours
RELP 466	Public Evangelism	<u>3 hours</u>
TOTAL		24 hours

COGNATE REQUIREMENTS: (Count toward General Education)

PSYC 124	Introduction to Psychology (F-1)	3 hours
SPCH 135	Introduction to Public Speaking (D-4)	3 hours
HIST 364-365	Christian Church I,II (C-1), (W)	3,3 hours
TOTAL		12 hours

GUIDELINES FOR GENERAL EDUCATION AND ELECTIVES:

CPTR 105	Word Processing (G-2)	1 hour
BUAD 128	Personal Finance	3 hours
EDUC 134	Principles of Christian Education	2 hours
HLED 173	Health and Life (F-3)	2 hours
SOCI 223	Marriage and the Family	2 hours
MUHL 215	Music in the Christian Church (D-3)	2 hours
ENGL 335	Biblical Literature (D-2), (W)	3 hours
PSYC 377	Fundamentals of Counseling (F-1), (W)	3 hours
TOTAL		18 hours

Typical Sequence of Courses for
B.A. RELIGION--CHURCH MINISTRY

YEAR 1		Semester		YEAR 2		Semester	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Comp	3	3	RELL 271-272	Elem of NT Greek	4	4
RELB 125	Tchings of Jesus	3			G-2, Comp Science	1	
RELT 138	Adventist Heritage		3	PSYC 124	Intro to Psych		3
MATH 103	Survey of Math	3		RELB 265	Biblical Exegesis	3	
SPCH 135	Intro to Pub Spkg		3		C-2, Pol Sci/Econ		3
	Pers Fin/Acc/Bus	3		RELB 345	OT Studies I (W)	3	
	D-2,3 Lit/Music/Art		2	RELB 346	OT Studies II		3
	F-3, Health Sci	2		RELT 265	Spiritual Form	1	
	F-2, Family Sci		2		Area E, Science	3	3
	G-3, Fitness	1				15	16
	Education		2				
		15	15				

YEAR 3		Semester		YEAR 4		Semester	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
RELL 311-312	Inter Greek	3	3	RELL 471-472	Bib Hebrew I,II	2	2
RELP 321	Intro to Preaching	2		RELP 423	Biblical Preaching	2	
RELP 322	Exposit Preaching		2	RELP 424	Evangel Preaching		2
RELP 353-354	Inter Ministry I,II	3	3	RELB 435-436	NT Studies I,II (W)	3	3
HIST 364-365	Christ Church I,II	3	3	RELP 451-452	Church Min I,II	3	3
RELB 425	Stud in Daniel (W)	3		RELT 484-485	Christ Theo I,II	3	3
RELB 426	Stud in Revelation		3			13	13
	G-1, 2 Skills		2				
	Gen, Music/Voice	1					
		15	16				

SUMMER FIELD SCHOOL

RELP 465	Person Evangelism	3
RELP 466	Public Evangelism	3
		6

Major--Teaching Ministry: 33 hours in major plus 28 hours in Education and cognate requirements as follows:

PROFESSIONAL EDUCATION REQUIREMENTS:

EDUC 135	Introduction to Education	3 hours
EDUC 217	Psychological Foundations of Education	2 hours
EDUC 240	Education for Exceptional Children & Youth	2 hours
EDUC 250	Technology in Education	2 hours
EDUC 356	Tests and Measurements	2 hours
EDUC 421	Behavioral Management	2 hours
EDUC 427	Current Issues in Education	2 hours
EDUC 432	Reading in Content	2 hours
EDUC 438	Curriculum and Content Methods/Bible	2 hours
EDUC 462	Organization and Leadership	1 hour
EDUC 468	Enhanced Student Teaching 7-12	8 hours
TOTAL		28 hours

COGNATE REQUIREMENTS: (Count toward General Education)

SPCH 135	Introduction to Public Speaking (D-4)	3 hours
RELL 271-272	Elements of New Test Greek, I, II (D-1)	4,4 hours
RELP 321	Introduction to Preaching	2 hours
RELP 322	Expository Preaching	2 hours
TOTAL		15 hours

GUIDELINES FOR GENERAL EDUCATION AND ELECTIVES:

BUAD 128	Personal Finance	3 hours
SPCH 136	Interpersonal Communication (D-4)	3 hours
HLED 173	Health and Life (F-3)	2 hours
PSYC 377	Fundamentals of Counseling (F-1), (W)	3 hours
TOTAL		11 hours

**Typical Sequence of Courses for
B.A. RELIGION--TEACHING MINISTRY**

YEAR 1		Semester		YEAR 2		Semester	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Comp	3	3	SPCH 135	Intro to Pub Spkg	3	
RELB 125	Tchgs of Jesus	3		MATH 103	Survey of Math	3	
RELT 138	Advent Heritage		3	EDUC 217	Psych Found of Ed	2	
EDUC 135	Intro to Education	3		EDUC 240	Excep Child & Yth		2
	Per Fin/Acctg/Bus	3		RELB 265	Biblical Exegesis		3
	Area C-1, History	3	3	HLED 173	Health & Life		2
	Minor or Elective		2		Area D-4, Com/Spch		3
	Area G-1,2, Skills		2		Area F-2, Fam Sci		3
	Area D-2,3 Lit/				Area E, Science	3	3
	Music/Art		3		Electives	3	
		<u>15</u>	<u>16</u>		Area G-3, Skls	<u>1</u>	<u>16</u>

YEAR 3

		Semester	
		1st	2nd
RELL 271-272	Elem of NT Greek	4	4
RELB 345	OT Studies I (W)	3	
RELB 346	OT Studies II		3
RELB 425	Studies in Daniel	3	
RELB 426	Studies in Rev		3
RELB 435	NT Studies I	3	
RELB 436	NT Studies II (W)		3
EDUC 356	Tests & Measure	2	
EDUC 250	Technology in Educ		2
		<u>15</u>	<u>15</u>

YEAR 4

		Semester	
		1st	2nd
RELP 321	Intro to Preaching	2	
RELT 484	Christian Theo I	3	
EDUC 421	Beh Management	2	
EDUC 427	Curr Issues in Ed	2	
	Area C-2, Pol Sci	3	
	Area F-1, Psy/Coun	3	
RELP 322	Exp Preaching		2
RELT 485	Christian Theo II		3
EDUC 432	Reading in Content		2
EDUC 438	Curr & Cont Meth		2
EDUC 462	Ed Organ & Ldrshp		1
	Minor or Elective		2
		<u>15</u>	<u>14</u>

YEAR 5

EDUC 468	Enhanced St. Tchg	8
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Major--General Religion: 33 hours in major to be taken under sequence of courses as arranged by adviser.

MINOR--IN RELIGION

A minor in Religion requires 18 hours including six hours upper division and RELB 125 and RELT 138. Only one course may be selected from RELP 321, 353, 354. Only one of the following three courses applies: RELT 317, 318, and 424. Those seeking state certification and/or denominational endorsement for teaching in other areas could, with careful selection, also acquire a minor in Religion.

MINOR--BIBLICAL LANGUAGES

A minor in Biblical Languages requires 18 hours from RELL 271-272; 311-312; and 471-472.

MINOR--PRACTICAL THEOLOGY

RELP 321	Introduction to Preaching	2 hours
RELP 322	Expository Preaching	2 hours
RELP 353	Interpersonal Ministry I	3 hours
RELP 451-452	Church Ministry I, II	3,3, hours
RELP 465	Personal Evangelism	3 hours
RELP 466	Public Evangelism	<u>3 hours</u>
		TOTAL 19 hours

BIBLICAL STUDIES

RELB 125. Life and Teachings of Jesus (B-1)

3 hours

A study of the life, ministry, and teachings of Jesus with special emphasis on His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Spring, Summer)

RELB 165. Bible Survey (B-1) 3 hours

This course is an introduction to the Scriptures designed to enrich the student's biblical knowledge and to prepare him/her for additional classes in Religion. It takes the form of a survey of both the Old and New Testaments and includes an exposure to principles of interpretation. Consideration also will be given to the writings of Ellen G. White as they relate to the Bible. This course may not be applied to a major or minor in Religion. Not open to students who have taken RELB 236 from previous catalogs. (Fall)

RELB 175. Acts of the Apostles (B-1) 3 hours

A study of the development of the church during apostolic times, including an introduction to the characters, issues, and events that shaped the earliest Christian communities and the theological development of the gospel by the early church. (Fall)

RELB 265. Biblical Exegesis (B-1) 3 hours

This course is to introduce the student to Biblical Exegesis (i.e. the application of the principles of hermeneutics) in passages of the Bible that are representative of the various literary genres found in the Old and New Testaments. The objective is to acquaint the student with the various presuppositions that determine the choice of hermeneutical approaches to the text; with guidelines (rules) for each step of the interpretation of the text; and to provide an opportunity for involvement in the process of biblical exegesis. (Spring)

RELB 335. Archeology and the Bible (B-1) 3 hours

A study of cultures, customs, languages, and rituals that throw light on the understanding of Scriptures based on archeological and other ancient material which, interpreted from the viewpoint of the Bible, emphasizes its accuracy and authenticity. (Fall, Spring, occasional Summer)

RELB 345. Old Testament Studies I (B-1) (W) 3 hours

An introduction to the Pentateuch and Writings, two major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. Various approaches to the study of the Old Testament will be surveyed. (Fall, Summers as needed)

RELB 346. Old Testament Studies II (B-1) 3 hours

An introduction to the Prophets, a third major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. (Spring, Summers as needed)

RELB 425. Studies in Daniel (B-1) (W) 3 hours

Recommended: HIST 174, 175.

A study of selected historical and prophetic portions of Daniel to discover their meaning and relevance for today. (Fall, Summers as needed)

RELB 426. Studies in Revelation (B-1) 3 hours

Recommended: HIST 174, 175.

A study of the prophecies and symbolisms of Revelation with their historical fulfillments. Special attention will be given to discovering its special message for our day. (Spring, Summers as needed)

RELB 435. New Testament Studies I (B-1) 3 hours

A brief introduction to and an exegetical study of the following epistles in the order of their composition: Galatians, I and II Thessalonians, I and II Corinthians, and James. Includes a background survey of the book of Acts. (Fall, Summers as needed)

RELB 436. New Testament Studies II (B-1) (W) 3 hours

A brief introduction to and an exegetical study of Romans, the Prison, Pastoral, and General epistles, (excluding James) and Hebrews. (Spring, Summers as needed)

RELB 295/495. Directed Study 1-3 hours

This course is limited primarily to Religion majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

RELIGION AND THEOLOGY

RELT 138. Adventist Heritage (B-2) 3 hours

A study of the Second Advent Awakening in the nineteenth century and the subsequent development of the Seventh-day Adventist Church. Special emphasis will be placed on the contributory role in the church of the Spiritual Gift of Prophecy through the life and ministry of Ellen G. White. (Fall, Spring, Summer)

RELT 225. Last-Day Events (B-2) 3 hours

Last-Day Events is a biblical, theological, and historical study of eschatology rooted in its Christ-centered focus. It considers the unique Seventh-day Adventist contribution over against that made by leading scholars both in the past and present. Also it examines the New Age Movement and Dispensationalism and focuses on how to be ready for the end event. (Fall, Spring, Summer)

RELT 255. Christian Beliefs (B-2) 3 hours

Christian Beliefs is a study of Adventist doctrines in a Christ-centered context. This course will involve a study of the major teachings, with a view to enhancing the student's understanding and ability to provide biblical support for his/her faith. (Fall, Spring, Summer)

RELT 265. Spiritual Formation (B-2) 1 hour

A historical and theological study of the classic spiritual disciplines of the Christian faith. This course provides a basic introduction to disciplines such as prayer, meditation, and devotional study and includes a practical application of the dynamics of these spiritual disciplines as a means of enriching the spiritual life. (Limited to Religion majors.)

***RELT 317. Issues in Physical Science and Religion (B-2) 3 hours**

See PHYS 317 for course description.

- RELT 318. Issues in Physical Science and Religion II (B-2) 3 hours**
See PHYS 318 for course description.

- RELT 268/368. Comparative Religions (B-2) (W) 3 hours**
A study of several major representative Christian and non-Christian religions, including a survey of the history and the distinctive characteristics of each. RELT 268 is offered on the Orlando campus only and does not carry writing emphasis. RELT 368 will require observational field work. (Spring)

- RELT 373. Christian Ethics (B-2) 3 hours**
A foundation course in moral decision-making in the fields of bio-ethics, moral ethics, and personal ethics. The objective is to discover timeless norms by which to make basic ethical decisions across the professional spectrum. These norms are then applied to issues relevant to the student. Limited to nursing students or students with Junior/Senior class standing. (Fall, Spring, Summers as needed)

- *RELT 424. Issues in Natural Science and Religion (B-2) (W) 3 hours**
See BIOL 424 for course description.

- RELT 465. Topics in Religion (B-2) 1-3 hours**
This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in evangelism, theological areas, and Biblical studies. The content will change, as needed, so the course may be repeated once for credit. Open to all students. (Fall, alternate years)

- RELT 467. Philosophy and the Christian Faith (B-2) (W) 3 hours**
A study of the main thinkers and schools of thought from the Middle Ages to the present and their influence on biblical theology. Also, attention will be given to various world views which are shaping Christian thought today. (Spring)

- RELT 484. Christian Theology I (B-2) 3 hours**
Christian Theology I and II examine the major loci of Christian beliefs. Christian Theology I takes up Prolegomena, Doctrine of God, Christology, and Pneumatology; and in the process covers a portion of the 27 Seventh-day Adventist fundamental beliefs. Acceptable for denominational certification only when RELT 485 is also taken. (Fall)

- RELT 485. Christian Theology II (B-2) 3 hours**
Prerequisite: RELT 484.
Christian Theology II examines Anthropology, Soteriology, Ecclesiology, and Eschatology, covering the remaining 27 Seventh-day Adventist fundamental beliefs. Acceptable for denominational certification. (Spring)

- RELT 295/495. Directed Study 1-3 hours**
This course is limited primarily to Religion majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

*One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for nonmajors.

PROFESSIONAL TRAINING

Church Leadership

REL 321. Introduction to Preaching

2 hours

Prerequisites: SPCH 135 and RELB 265.

An introduction to sermon development and delivery. Attention will be given to the sermon structure and the preparation of biographical and topical sermons. Opportunity will be given to preach and analyze sermons. One lecture and two laboratories each week. To be taken in the junior year. (Spring)

REL 322. Expository Preaching

2 hours

Prerequisite: REL 321.

Expository, textual sermon types will be considered. One field trip will be required. Opportunity will be provided to develop proficiency in preaching. One class lecture and two laboratories each week. To be taken in the junior year. (Spring)

REL 353. Interpersonal Ministry I

3 hours

The development of listening skills and interpersonal communication in pastoral visitation with special emphasis on revitalizing inactive members. Laboratory work in area churches will be required. (Fall)

REL 354. Interpersonal Ministry II

3 hours

An introduction to pastoral care in such problem areas as catastrophic and terminal illness, grief, death, divorce, drug and alcohol addiction, homosexuality, incest and rape. Visitation to correctional and rehabilitation centers, hospitals, and nursing homes will be required. (Spring)

REL 423. Biblical Preaching

2 hours

Prerequisite: REL 322.

The development of preaching skills shared in Introduction to Preaching and Expository Preaching, with special emphasis on the preparation and delivery of the narrative/expository sermon. (Fall)

REL 424. Evangelistic Preaching

2 hours

Prerequisite: REL 322.

The development and the preaching of evangelistic sermons which will prepare one to conduct a public crusade. (Spring)

REL 451. Church Ministry I

3 hours

An introduction to church ministry, this course focuses on the responsibilities of clergy and laity, including the call to discipleship and/or ministry, the study of denominational polity, the administrative structure of the church on all levels, and the relationship of the local church to the community. Laboratory work in area churches will be required. (Fall)

REL 452. Church Ministry II

3 hours

Consideration is given the various professional tasks of the pastor, such as pastoral care, administration, leadership in worship, and conducting baptisms, weddings, anointing services, funerals, etc. Laboratory work in area churches will be required. (Spring)

REL P 465. Personal Evangelism**3 hours**

Attention will be given to methods and principles of Evangelism Explosion and the giving of Bible studies. Field work with local churches will be required. This course is available only in connection with REL P 466 and will be taught at a time arranged by the instructor. The consent of the Religion Department must be obtained prior to enrollment. (Summer)

REL P 466. Public Evangelism**3 hours**

A study of the principles employed in preparing and conducting public evangelistic meetings. The student will learn how to plan, develop, and hold an evangelistic series as well as Revelation Seminars. This course is available only in connection with the Field School of Evangelism. The consent of the Religion Department must be obtained prior to enrollment. (Summer)

REL P 468. Health Evangelism**3 hours**

A study of the concepts and methods of creating witnessing opportunities through taking advantage of the current interest in preventive health practices and lifestyle changes. The objective of these concepts and methods is to obtain decisions for a more abundant way of life and to lead men and women to Christ. The course also will provide future church leaders with practical ways to utilize the talents of members in health evangelism. Laboratory work in area churches and/or community settings is required. (Spring, or as needed)

REL P 295/495. Directed Study**1-3 hours**

This course is limited primarily to Religion majors and must be approved by the chairman of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

Lay Leadership and Missions**REL P 099/101. Student Missions Orientation****0/2 hours**

A course designed to help students better understand cultural differences, interpersonal relationships, health care for others and themselves, social and monetary problems, personal qualifications for service, and relevant denominational policies for overseas service. The class is required by the General Conference of Seventh-day Adventists for those under appointment as student missionaries. The class is also a prerequisite for students participating in the North American Division Task Force Program. Elective credit only. No academic credit is allowed for students who enroll for NOND 227-228, Christian Service. Students who do not enroll for NOND 227-228 may receive two hours of credit. (Spring)

REL P 204. Principles of Self-Supporting Work**2 hours**

The objectives of this course are to set forth principles from the Spirit of Prophecy; review the history and successes and failures of self-supporting institutions; study plans and methods of operation and set before the student the needs and call for active involvement as lay members.

REL P 206. Christian Salesmanship**2 hours**

Teaches the psychology, techniques and methods of selling Christian literature.

BIBLICAL LANGUAGES

RELL 271-272. Elements of New Testament Greek (D-1) 4,4 hours

A study of grammar of the vernacular (*koine*) Greek of New Testament times, with readings in the epistles of John. Laboratory work required. (Fall, Spring)

RELL 311-312. Intermediate New Testament Greek (D-1) 3,3 hours

A course in advanced studies, grammar, and syntax of (*koine*) Greek with translation of readings from the Gospel of John, the Synoptics, and the Pauline Epistles. (Fall, Spring)

RELL 471-472. Biblical Hebrew (D-1) 2,2 hours

A foundation course in the grammar, syntax, and lexicography of classical Biblical Hebrew, with an emphasis on reading skills. Laboratory work required. (Fall, Spring)

EDUCATION

EDUC 438. Curriculum and Content Methods/Bible 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials construction, planning, testing and evaluating student performance, and the survey and evaluation of textbooks.

(B-1), (B-2), (D-1), (W) See pages 47-49 and 51-55 for explanation of General Education requirements.

INTERDEPARTMENTAL PROGRAMS

MEDICAL SCIENCE

Adviser: Stephen A. Nyirady

A Bachelor of Science Degree in Medical Science will be conferred upon students not already in possession of a bachelor's degree who satisfy the following three conditions:

1. Complete 93 semester hours in an accredited undergraduate college program of which at least the last 30 were taken in residence at Southern College and at least 12 of which were at the upper division level.
2. Meet the general education requirements equivalent to those outlined for the current Medical Technology program.
3. Provide certification from an accredited professional school of dentistry, medicine, or optometry that the first year of the respective professional program has been successfully completed and that the applicant is eligible to continue.

Request for the conferral of this degree is made to the Director of Records.

GENERAL STUDIES

Adviser: Wilma McClarty

The Associate of Arts degree with a major in General Studies is designed for students who have not made a career decision at the time they enter college. This degree offers them an opportunity to earn a large part of the general requirements for a baccalaureate degree while leaving 11-17 semester hours free for exploration in areas of their choice.

ASSOCIATE OF ARTS DEGREE IN GENERAL STUDIES

Major: The completion of the general education requirements for the Bachelor of Arts degree with the exception that 6 hours instead of 12 will be required for Area B, Religion. A minimum total of 64 semester hours with a Southern College and cumulative minimum grade point average of 2.00 is required. Students who plan eventually to complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

*Six hours of elementary foreign language must be included unless two units of the same language were earned in high school.

Typical Sequence of Courses for A.A. GENERAL STUDIES

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
ENGL 101-102	College Comp	3	3		Area B, Religion	3	
	Area B, Religion	3			Area E, Nat Sci	3	
	Area E-1, Nat Sci	3			Area D, Lang/Lit		
	G-3, Rec Skills		1		Fine Arts	3	
	Elective (area of interest)	3	3		Area A, Math		0-3
	Area C, History	3	3		Area C, Govt/Econ	3	
	Area G, Act Skls	1	3		Area F, Beh Sci	2	
	Area F, Beh Sci		3		Area G, Skills	1	
		16	16		Foreign Language	3	3
					Elective	4	7-4
						16	16

See pages 47-49 and 51-55 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

NON-DEGREE PRE-PROFESSIONAL PROGRAMS

Pre-professional and pre-technical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other pre-professional programs are desired, faculty advisors are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

ANESTHESIA

Adviser: Bonnie Hunt

Registered nurses who are comfortable working in critical care areas may become registered nurse anesthetists. Graduation from an approved program of nursing and a valid nursing license is required. Additional requirements may be determined by consulting the Department of Nursing.

DENTISTRY

Adviser: Stephen A. Nyirady

Pre-dental training in college requires a minimum of three years of study; however, a preference is given to those who have completed a fourth year, earning a bachelor's degree. Students may major in the field of their interest. Although a thorough background in the biological and physical sciences is essential to the study of dentistry, a broad educational background in the humanities is desirable. Upper division biology courses are recommended to prepare for the Dental Admissions Test and for the first year of basic science courses in dental school.

Application to dental school should be made one year previous to the one for which admission is required. Successful applicants should have a minimum G.P.A. of 3.00 in both science and non-science courses as well as satisfactory performance on the Dental Admissions Test (given each October and April). Information regarding the Dental Admission Testing Program may be obtained from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 60611.

The following courses must be included to meet the minimum requirements for admissions to the LLU School of Dentistry:

BIOL 151-152	8 hours
CHEM 151-152, 311-312, 313-314	16 hours
ENGL 101-102	6 hours
PHYS 211-212, 213-214	8 hours

The following courses are strongly recommended: Ceramics, Principles of Management, Basic Accounting, Precalculus, Nutrition, Histology, Biochemistry, and psychology courses.

LAW

Adviser: Ben McArthur

Students interested in the study of law as a profession should become acquainted with the entrance requirements of various law schools. This will make possible the planning of a pre-professional program which will qualify the student for admission to several schools.

It is a general requirement that students complete a bachelor's degree before entering law school. Although no particular major is required, four fields should be especially considered by the student serious about law school. These are: Business, history, English, and behavioral science. Certain courses recommended by all law schools include American history, freshman composition, principles of accounting, American government, principles of economics, English history, business law, and mathematics. Pre-law students should concentrate on developing their analytical, verbal, and writing skills.

Southern College offers a Political Economy minor, which combines an interdisciplinary selection of courses helpful for law school preparation. This eighteen-hour minor consists of:

1. ECON 224 Principles of Economics 3 hours
2. PLSC 254 American Government 3 hours
3. PLSC 387 Modern Society and Politics 3 hours
4. ENGL 313 Expository Writing 3 hours

Plus six hours selected from the following courses:

5. ACCT 221 Principles of Accounting
6. ECON 225 Principles of Economics
7. BUAD 358 Legal, Ethical, and Social Environment of Business
8. BUAD 339 Business Law
9. HIST/PLSC 357 Modern America
10. HIST 374 History of England
11. JOUR 427 Mass Media Law and Ethics

Information about preparation for law school may be obtained from the Section of Legal Education and Admissions to the Bar, American Bar Association, 1155 East 60th Street, Chicago, Illinois 60637. For information about the Law School Admissions Test, see the pre-law adviser.

MEDICINE

Advisers: Stephen A. Nyirady, William Hayes

Secondary school students who look forward to a career in medicine are advised to include mathematics and science courses during their high school years.

It is recommended that applicants complete a Bachelor's Degree prior to entrance into medical school. Exceptional students may be eligible to apply after completion of a minimum of 85 semester hours. Letter grades are essential for evaluation of the required science courses. Applicants for admission to the Loma Linda University School of Medicine should maintain a grade point average of at least 3.50 in both science and non-science courses. The following courses without an asterisk must be included in the applicant's academic program. Classes with asterisks in biology, chemistry, and mathematics are recommended.

BIOL 151-152, 313*, 316*, 330*, 340*, 415*, 417*, 418*	8 hours
CHEM 151-152, 311-312, 313-314, 323*	16 hours
ENGL 101-102	6 hours
MATH 120, 181*	3 hours
PHYS 211-212, 213-214	8 hours
Religion	12 hours

It is recommended that students plan a curriculum that includes study of the humanities and social sciences to provide a solid preparation for the future role of the physician.

Applicants are also encouraged to obtain experience where they are directly involved in the providing of health care. The Biology Department collaborates with Chattanooga's Erlanger Medical Center in a premedical preceptorship program. This program provides the opportunity for upper division pre-medical students to shadow resident physicians in the hospital for 24-hour periods.

The applicant is required to have taken the new Medical College Admission Test (MCAT) prior to consideration by the admissions committee. This exam is administered twice a year--in September and April. Application for the exam is made through the Counseling and Testing Center one month before the exam is scheduled. For entrance into medical school following graduation, the student should plan on taking the MCAT in April of the junior year. All of the above required science courses should be completed by this time to insure maximum

performance on the MCAT exam. The exam may be retaken in September of the senior year.

Once or twice each year representatives from LLU and other schools of medicine visit the campus to interview prospective students. Premedical students are encouraged to make appointments to speak with them.

Most medical schools are members of the American Medical College Application Service (AMCAS). Applications must be submitted through this service. The AMCAS application may be obtained from the Testing and Counseling Office or directly from AMCAS. Application should be directly to AMCAS between July 1 and November 1 for entry in the summer of the following year.

American Medical College Application Service
1176 Massachusetts Avenue, N.W.
Washington, DC 20036-1989

After receiving the applications from AMCAS, the admissions office of the medical school reviews the candidates and determines whether or not supplementary information is needed.

Medical schools usually require a letter of recommendation from the pre-professional recommendation committee of the applicant's undergraduate college. Senior pre-medical students are asked to provide the names and addresses of all medical schools to which they are applying to the Vice President for Academic Administration's office before October 1.

Following a careful evaluation of the supplementary application and letters of recommendation submitted to the admissions office, selected applicants may be invited for a personal interview by the medical school.

OPTOMETRY

Adviser: Ray Hefferlin

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his or her choice. However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

A minimum of two years of preoptometric study is required. However, additional study increases the prospects of acceptance into professional training.

Following is a list of preoptometry courses required by most schools:

BIOL 330 and 151-152	12 hours
CHEM 151-152	8 hours
ENGL 101-102	6 hours
MATH 120, 121, 181, 182	12 hours
PHYS 211-212, 213-214	8 hours
PSYC 124	3 hours

Direct individual inquiries are welcomed by the American Optometric Association, Division of Education and Manpower, 243 North Lindbergh Blvd., St. Louis, MO 63141.

OSTEOPATHIC MEDICINE

Adviser: Stephen A. Nyirady

An alternative to allopathic medical schools, which grant the M.D. degree, are the osteopathic medical schools whose graduates receive the D.O. degree.

Many Seventh-day Adventists have attended the University of Health Sciences, College of Osteopathic Medicine in Kansas City, Missouri, one of fifteen osteopathic medical colleges in this country.

Requirements for admission are similar to those for allopathic medical schools such as Loma Linda University School of Medicine.

For a reasonable chance of acceptance, a minimum grade point average of 3.00 should be maintained in both science and non-science subjects.

PHARMACY

Adviser: Mitchell Thiel

The bachelor's degree program in pharmacy normally requires five years, the first two years of which may be taken at Southern College.

Admission requirements to colleges of pharmacy are somewhat variable so the student should consult the catalog of the school of his/her choice for specific course recommendations.

Minimum admission requirements to the University of Tennessee College of Pharmacy at Memphis are:

ACCT 221	3 hours
BIOL 151-152	8 hours
CHEM 151-152, 311-312, 313-314	16 hours
ENGL 101-102	6 hours
MATH 181	3 hours
PHYS 211-212, 213-214	8 hours

Additional requirements include:

Literature or Foreign Language	4 hours
Social Sciences:	
Psychology	2 hours
Other (to include Economics, Political Science, Sociology, History, etc.)	8 hours
Speech	3 hours
Electives	8 hours

A minimum grade of C must be obtained for each required pre-pharmacy class. A higher grade point average will increase the chance of acceptance into pharmacy school. In addition, a satisfactory score must be achieved on the National Pharmacy College Admission Test.

VETERINARY MEDICINE

Adviser: Stephen Nyirady

Competition for admission to colleges of veterinary medicine is keen. Consequently, most successful applicants have completed a degree rather than the minimum requirements listed below. It should also be noted that it is difficult to be accepted in any veterinary institution other than the school in the state where the applicant resides.

The applicant must make a satisfactory score on the Veterinary College Admission Test (VCAT) in addition to meeting grade point average and personal qualifications for admission. Professional training involves four years of veterinary school beyond college.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

BIOL 151-152, 316, 412	15 hours
CHEM 151-152, 311-312, 313-314, 323	20 hours
ENGL 101-102	6 hours
MATH 181-182	7 hours
PHYS 211-212, 213-214	8 hours

Additional requirements include:

Humanities and Social Sciences	18 hours
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Admission requirements will vary between veterinary schools. Therefore, it is recommended that the pre-veterinary student work closely with his/her adviser in assuring that the specific requirements for the schools of his/her choice are met.

BOARD AND FACULTY

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- Jeanne Davis (1970) President's Secretary

ACADEMIC ADMINISTRATION

- Floyd Greenleaf, Ph.D. (1966) Senior Vice President for Academic Administration

Instructional Media

- Frank Di Memmo, M.S. (1980) Director, Instructional Media

Library

- Peggy Bennett, M.S.L.S. (1971) Director of Libraries
- Loranne Grace, M.L.S. (1970) Associate Librarian
- Katy Hunt, M.S.L.S. (1976) Director, ANGEL Program
- Patricia Morrison, M.L.S. (1981) Assistant Librarian

Records

Mary Elam, M.A. (1965) Associate Vice President for
Academic Administration

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Ronald Barrow, Ph.D. (1979) Vice President for
Admissions and College Relations

Public Relations

James Ashlock, Ed.D.(1991) Director of Alumni/
College Relations

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and Media Relations

Recruitment

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Merlin Wittenberg, M.Ed. (1984) Associate Director

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Helen Durichek, B.A. (1986) Associate Vice President
for Finance

Accounting and Financial Services

Jack Ferneyhough, B.S. (1989) Treasurer

Burt Pooley, M.A. (1992) Chief Accountant

Commercial Auxiliaries

Dale Collins, B.A. (1988) Associate Manager, The College Press

Roy Dingle, B.S. (1974) Bakery Manager, Village Market

Harold Haas, B.S. (1991) Associate Manager, Village Market

Allen Olsen (1984) General Manager, The College Press

Bruce Vogt, B.S. (1986) Production Manager, The College Press

Charles Whidden (1984) Manager, Village Market

Rita Wohlers (1987) Manager, Campus Shop

Computer Services

John Beckett, B.A. (1975) Director, Computer Services

Judy DeLay, B.A. (1982) Assistant Director

William Estep (1979) Computer Operations Manager

Thom Nelson, B.A. (1985) Computer Analyst/Programmer

Personnel/Student Employment

Elsworth Hetke, M.A. (1991) Director of Personnel/
Student Employment

Service Auxiliaries

Earl Evans, B.S. (1977) Director, Food Service
 C. R. Lacey (1970) Director, Grounds
 Charles Lucas (1984) Director, Physical Plant
 William McKinney (1974) Director, Motor Pool
 Clarence McCandless (1979) Director, Custodial Services

Student Finance and Accounts

Ken Norton, B.S. (1988) Director, Student Finance
 Donna Myers (1972) Assistant Director

WSMC FM90.5

Doug Walter, B.A. (1984) General Manager, WSMC FM90.5
 Dan Landrum (1989) Program Director

DEVELOPMENT

Jack McClarty, Ed.D. (1980) Vice President for Development
 Paul Smith, M.Div. (1992) ... Assistant Vice President for Development/
 Director of Planned Giving

STUDENT SERVICES

William Wohlers, Ph.D. (1973) Vice President for Student Services

Campus Safety

Dale Tyrrell (1990) Director, Campus Safety
 Clifford Myers, Sr. (1968) Associate Director, Campus Safety

Counseling

K. R. Davis, M.A. (1970) Director of Counseling and Testing
 Rhea Rolfe, M.A. (1972) Counselor

Health Service

Eleanor Hanson, R.N. (1966) Director, Health Service
 David Winters, O.D. College Physician

Residence Halls

Sharon Engel (1986) Dean of Women
 Stan Hobbs, M.Ed. (1985) Associate Dean of Men
 Kassandra Krause, A.S. (1987) Associate Dean of Women
 Don Mathis, B.S. (1988) Associate Dean of Men
 Ron Qualley, B.S. (1980) Dean of Men
 Lydia Rose, B.S. (1987) Associate Dean of Women

COLLEGE PASTORS

Gordon Bietz, D.Min. (1981) Pastor
 Randy Harr, B.S. (1991) Youth Pastor
 James Herman, B.A. (1976) Children's Ministries Pastor
 Ken Rogers, B.A. (1986) College Chaplain
 Ed Wright, M.Div. (1985) Family Ministries Pastor

FACULTY EMERITI

- Theresa Rose Brickman, M.Ed., *Associate Professor Emerita of Secretarial Science*
B.A., Union College; M.Ed., University of Oklahoma.
- Thelma Cushman, M.A., *Associate Professor Emerita of Home Economics*
B.A., Pacific Union College; M.A., Pacific Union College; M.A., Michigan State University.
- Olivia Brickman Dean, M.Ed., *Associate Professor Emerita of Education*
B.A., Union College; M.Ed., University of Oklahoma.
- Charles Fleming, Jr., M.B.A., *Business Manager Emeritus*
B.A., Emmanuel Missionary College; M.B.A., Northwestern University.
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B.A., Columbia Union College; M.A. and B.D., Andrews University.
- Cyril F. W. Fitcher, Ed.D., *Vice-President Emeritus of Academic Administration*
B.A., Andrews University; Diploma in Theology, Newbold College; Diploma of Education, University of Western Australia; M.Ed. and Ed.D., Maryland University.
- K. M. Kennedy, Ed.D., *Professor Emeritus of Education*
B.A., Valparaiso University; M.Ed., University of Chattanooga; Ed.D., University of Tennessee.
- H. H. Kuhlman, Ph.D., *Professor Emeritus of Biology*
B.A., Emmanuel Missionary College; M.A., George Peabody College for Teachers; Ph.D., University of Tennessee.
- Evlyn Lindberg, M.A., *Associate Professor Emerita of English*
B.A., Willamette University; M.A., Texas Christian University.
- Robert Merchant, M.B.A., *Treasurer Emeritus*
B.A., Andrews University; M.B.A., University of Arkansas.
- William H. Taylor, M.A., *Administrator Emeritus*
B.A., Union College; M.A., University of Nebraska.
- Drew Turlington, M.S., *Associate Professor Emeritus for Industrial Education*
B.S., Southern Missionary College; M.S., University of Tennessee.

INSTRUCTIONAL FACULTY

(Dates in parentheses indicate the beginning year of employment at Southern College.)

- Pamela Ahlfeld, M.S., *Associate Professor of Nursing*
B.S., Southern Missionary College; M.S., Georgia State University. (1990)
- J. Bruce Ashton, D.M.A., *Professor of Music*
B.Mus., Capital University; M. Mus., American Conservatory of Music; D.M.A., University of Cincinnati. (1968)
- Wiley Austin, M.S., *Associate Professor of Chemistry*
B.S. Pacific Union College; M.S., Stanford University. (1988)
- Joyce Azevedo, M.A., *Assistant Professor of Biology*
B.S., Union College; M.A., University of California, Riverside. (1992)
- Fern Babcock, M.A.T., *Assistant Professor of Education*
B.L.A., Pakistan Adventist Seminary and College; M.A.T., Andrews University. (1991)
- George Babcock, Ed.D., *Professor of Education*
B.A., Columbia Union College; M.A. and Ed.D., Andrews University. (1991)
- Ben Bandiola, Ph.D., *Professor of Education and Psychology*
B.S.E. and M.A., Philippine Union College; Ph.D., University of Iowa. (1984)
- John Beckett, B.A., *Instructor of Computer Science/Director of Computer Services*
B.A., Southern Missionary College. (1974)
- Douglas Bennett, Ph.D., *Ellen G. White Professor of Religion*
B.A., Southern Missionary College; M.A. and B.D., Andrews University; Ph.D., Bowling Green State University. (1961)
- Peggy Bennett, M.S.L.S., *Director of Libraries, Associate Professor of Library Science*
B.S. Southern Missionary College; M.S.L.S., Florida State University. (1971)
- Orville Bignall, B.S., *Assistant Professor of Physics*
B.S., Southern College of Seventh-day Adventists. (1992)
- Jack Blanco, Th.D., *Professor of Religion*
B.A., Union College; M.A. and B.D., SDA Theological Seminary; M.Th., Princeton Theological Seminary; Th.D., University of South Africa. (1983)

- Ann Clark, Ph.D., *Associate Professor of English/Coordinator of Special Academic Services*
B.A., Southern Missionary College; M.A.T., University of Tennessee at Chattanooga; Ph.D., University of Tennessee, Knoxville. (1965)
- Herbert Coolidge, Ph.D., *Associate Professor of Business Administration*
B.S., Southern Missionary College; M.B.A. and Ph.D., Michigan State University. (1991)
- Diane Cooper, M.A., *Assistant Professor of Psychology*
B.A., Southern Missionary College; M.A., Andrews University. (1989)
- Joyce Cotham, M.B.Ed., *Associate Professor of Office Administration*
B.S., Southern Missionary College; M.B.Ed., Middle Tennessee State University. (1971)
- Nancy Crist, M.S.N., *Assistant Professor of Nursing*
B.S.N., Walla Walla College; M.S.N., University of Florida. (1990)
- Kenneth R. Davis, M.A., *Assistant Professor of Religion/Director of Counseling and Testing*
B.A., Emmanuel Missionary College; M.A., Andrews University; M.A., Boston University. (1970)
- Don Dick, Ph.D., *Professor of Speech Communication*
B.A., Union College; M.A., University of Nebraska; Ph.D., Michigan State University. (1968)
- Ron du Preez, M.A., *Assistant Professor of Religion*
B.A., Helderberg College; M.A., Andrews University. (1992)
- John Durichek, M.A., *Associate Professor of Computer Science and Technology*
B.S., Southern Missionary College; M.S., George Peabody College for Teachers. (1969)
- David Ekkens, Ph.D., *Professor of Biology*
B.A. and M.A., Andrews University; Ph.D., Loma Linda University. (1990)
- Richard Erickson, M.B.A., *Associate Professor of Business Administration*
B.S. and M.B.A., Austin Peay State University. (1984)
- Ted Evans, M.Ed., *Associate Professor of Physical Education*
B.S., Andrews University; M.Ed., University of Tennessee at Chattanooga. (1974)

FACULTY DIRECTORY

- Flora Flood, M.S.N., *Associate Professor of Nursing*
B.S., Columbia Union College; M.S.N., Medical College of Georgia. (1983)
- Cheryl K. Galusha, M.S.N., *Associate Professor of Nursing*
B.S., Southern Missionary College; M.S.N., University of Florida. (1982)
- Robert Garren, M.F.A., *Professor of Art*
B.S., Atlantic Union College; M.F.A., Rochester Institute of Technology. (1968)
- Philip G. Garver, Ed.D., *Professor of Physical Education*
B.S., Southern Missionary College; M.S., Eastern Michigan University; Ed.D., University of Tennessee, Knoxville. (1976)
- Orlo Gilbert, M.Mus. Ed., *Professor of Music*
B.M.E., La Sierra College; M.Mus.Ed., Madison State Teachers College. (1967)
- Judith Glass, M.Mus., *Professor of Music*
B.Mus. and M.Mus., University of Texas at Austin. (1975)
- Loranne Grace, M.L.S., *Associate Professor of Library Science*
B.S., Walla Walla College; M.L.S., University of Washington. (1970)
- Jon Green, Ph.D., *Professor of Education*
B.A., La Sierra College; M.S., Loma Linda University; M.A., Andrews University; Ph.D., Georgia State University. (1989)
- Floyd Greenleaf, Ph.D., *Professor of History/Senior Vice President for Academic Administration*
B.A., Southern Missionary College; M.A., George Peabody College for Teachers; Ph.D., University of Tennessee, Knoxville. (1966)
- Edgar O. Grundset, M.A., *Associate Professor of Biology*
B.A., Emmanuel Missionary College; M.A., Walla Walla College. (1957)
- Leona Gulley, Ed.D., *Associate Professor of Nursing*
B.S., Columbia Union College; M.A., Philippine Union College Seminary; M.H.Sc., Philippine Union College; M.S., Andrews University; Ed.D., Vanderbilt University. (1978)
- Norman Gulley, Ph.D., *Professor of Religion*
Diploma in Theology, Newbold College; B.A., Southern Missionary College; M.A. and B.C., Andrews University; Ph.D., Edinburgh University. (1978)

FACULTY DIRECTORY

- David W. Haley, M.B.A., *Assistant Professor of Business Administration*
B.S., Southern College of Seventh-day Adventists; M.B.A.,
Tennessee Technological University. (1989)
- Richard Halterman, M.S., *Associate Professor of Computer Science*
B.S., Florida Southern College; M.S., Florida Atlantic University.
(1987)
- Jan Haluska, Ph.D., *Professor of English*
B.S., Pacific Union College; M.A., Andrews University; Ph.D.,
University of Tennessee, Knoxville. (1981)
- Lawrence E. Hanson, Ph.D., *Professor of Mathematics*
B.A., California State University; M.A., University of California;
Ph.D., Florida State University. (1966)
- *Pamela Harris, M.L.S., *Assistant Professor of Journalism*
B.A., Southern Missionary College; M.L.S., George Peabody
College of Vanderbilt University. (1989)
- William Hayes, Ph.D., *Assistant Professor of Biology*
B.S. and M.S., Walla Walla College; Ph.D., University of
Wyoming. (1990)
- Carole Haynes, Ed.D., *Associate Professor of Education*
B.S., Southern Missionary College; M.Ed., University of
Tennessee at Chattanooga; Ed.D., University of Tennessee,
Knoxville. (1982)
- Ray Hefferlin, Ph.D., *Professor for International Research in Physics*
B.A., Pacific Union College; Ph.D., California Institute of
Technology. (1955)
- Volker Henning, M.A., *Associate Professor of Journalism*
B.A., Southern Missionary College; M.Div., Andrews University;
M.A., University of Central Florida. (1989)
- Dawn Holbrook, B.S., *Instructor of Nursing*
B.S., Southern College of Seventh-day Adventists. (1991)
- Dorothy Hooper, M.A., *Associate Professor of Nursing*
B.S., Southern Missionary College; M.S., Loma Linda University.
(1975)
- Duane F. Houck, Ph.D., *Professor of Biology*
B.A., Emmanuel Missionary College; M.A., University of North
Carolina; Ph.D., Iowa State University. (1973)
- Shirley Howard, M.S.N., *Associate Professor of Nursing*
B.S., Walla Walla College; M.S.N., University of Tennessee,
Knoxville. (1974)

* Study Leave

FACULTY DIRECTORY

- Bonnie Hunt, M.S.N., *Associate Professor of Nursing*
B.S., Loma Linda University; M.S.N., University of Tennessee,
Knoxville. (1974)
- Katy Hunt, M.S.L.S., *Associate Professor of Library Science*
B.S., Southern Missionary College; M.S.L.S., University of
Tennessee, Knoxville. (1976)
- Bradley G. Hyde, M.S.C.S., *Associate Professor of Computer Science*
B.A., Southern Missionary College; M.S.C.S., Maryland
University. (1988)
- Gordon Hyde, Ph.D., *Professor of Religion*
B.A., Andrews University; M.A., University of Wisconsin; Ph.D.,
Michigan State University. (1982)
- Steven Jaecks, M.Ed., *Associate Professor of Physical Education*
B.A., Loma Linda University; M.Ed., University of Tennessee at
Chattanooga. (1980)
- Barbara James, M.S.N., *Assistant Professor of Nursing*
B.S., Southern Missionary College; M.S.N., University of Texas at
Arlington. (1991)
- John Keyes, Ed.S., *Associate Professor of English*
B.A., Asbury College; M.A., Central Michigan University; M.A.T.,
Andrews University; M.L.S., Vanderbilt University; Ed.S., George
Peabody College for Teachers. (1987)
- Henry Kuhlman, Ph.D., *Professor of Physics*
B.A., Emmanuel Missionary College; M.A., Western Michigan
University; Ph.D., Purdue University. (1986)
- Edward L. Lamb, M.S.S.W., A.C.S.W., *Professor of Social Work and
Family Studies*
B.S., Union College; M.S.S.W., University of Tennessee,
Knoxville. (1971)
- Katie A. Lamb, M.S.N., *Associate Professor of Nursing*
B.S., Union College; M.S.N., University of Central Arkansas. (1972)
- Donn Leatherman, M.Div., *Assistant Professor of Religion*
B.Th., Canadian Union College; M.Div., Andrews University.
(1992)
- Merritt MacLafferty, M.A., *Associate Professor of Computer Science*
B.A., Union College; M.A., Pacific Union College. (1980)
- Ben McArthur, Ph.D., *Professor of History*
B.A., Andrews University; M.A. and Ph.D., University of Chicago.
(1979)
- Caroline McArthur, M.S., *Associate Professor of Nursing*
B.S., University of Mississippi; M.S., Emory University. (1979)

- Wilma McClarty, Ed.D., *Professor of English*
B.A. and M.A., Andrews University; Ed.D., University of Montana. (1972)
- Robert Moore, Ed.D., *Professor of Mathematics*
B.A., Southern Missionary College; M.S., University of North Carolina; Ed.D., The University of Georgia. (1979)
- Derek Morris, D. Min., *Professor of Religion*
B.A., Columbia Union College; M.Div. and D.Min., Andrews University; (1987)
- Patricia C. Morrison, M.L.S., *Associate Professor of Library Science/Assistant Librarian*
B.S., East Carolina University; M.L.S., Vanderbilt University. (1981)
- Mildred Muniz, M.S.N., *Assistant Professor of Nursing*
B.S., Antillian College; M.S.N., Catholic University of Puerto Rico. (1990)
- Laura Nyirady, M.S.N., *Associate Professor of Nursing*
B.S., Loma Linda University; M.S.N., Boston University. (1986)
- Stephen A. Nyirady, Ph.D., *Professor of Biology*
B.A., Atlantic Union College; M.S. and Ph.D., Loma Linda University. (1986)
- *Cliff Olson, M.A., *Associate Professor of Business*
B.A., University of Northern Colorado; M.A., Colorado State University. (1989)
- Helmut K. Ott, Ed.D., *Professor of Modern Languages*
B.A., Loma Linda College of Arts and Sciences; M.A., Inter-American University; M.A. and Ed.D., Andrews University. (1971)
- Joy Parchment, M.S.N., *Assistant Professor of Nursing*
B.S.N., Andrews University; M.S.N., Anna Maria College. (1990)
- Mark Peach, M.A., *Assistant Professor of History*
B.A., Walla Walla College; M.A., Washington State University. (1987)
- Dennis Pettibone, Ph.D., *Professor of History*
B.A., La Sierra College; M.A., Loma Linda University; Ph.D., University of California, Riverside. (1988)
- Helen Pyke, M.A., *Assistant Professor of English*
B.A., Walla Walla College; M.A., University of Tennessee at Chattanooga. (1990)

FACULTY DIRECTORY

- Kenneth Reynolds, *Instructor of Industrial Technology* (1992)
- Arthur Richert, Ph.D., *Professor of Mathematics*
B.A., Southern Missionary College; M.A. and Ph.D., University of Texas. (1970)
- Marvin L. Robertson, Ph.D., *Professor of Music*
B.Mus., Walla Walla College; M.A., University of Northern Colorado; Ph.D., Florida State University. (1966)
- Cyril Roe, Ed.D., *Professor of Education*
B.A., Pacific Union College; M.A., Pacific Union College; Ed.D., University of the Pacific. (1976)
- Cecil Rolfe, Ph.D., *Professor of Business Administration*
B.A., Columbia Union College; M.B.A. and Ph.D., University of Maryland. (1964)
- Daniel Rozell, M.A., *Associate Professor of Business Administration*
B.S., Southern Missionary College; M.A., Central Michigan University. (1978)
- Terrie Ruff, M.S.W., *Instructor of Social Work and Family Studies*
B.S.W., Columbia College; M.S.W., University of South Carolina. (1990)
- Helen Sauls, M.A., *Associate Professor of Education*
B.S., Southern Missionary College; M.A., University of Iowa. (1989)
- Lynn Sauls, Ph.D., *Professor of Journalism and English*
B.S., Southern Missionary College; M.A., Peabody College of Vanderbilt University; Ph.D., University of Iowa. (1989)
- Kathy Schleier, B.S.N., *Instructor of Nursing*
B.S.N., Southern Missionary College. (1991)
- Sterling Sigsworth, Ph.D., *Assistant Professor of Chemistry*
B.S., Ohio University; Ph.D., Pennsylvania State University. (1991)
- Patricia Silver, M.A., *Associate Professor of Music*
B.S.C., Madison College; M.A., George Peabody. (1982)
- David Smith, Ph.D., *Professor of English*
B.A. and M.A., Andrews University; Ph.D., University of Tennessee, Knoxville. (1981)
- Peggy Smith, B.S., *Instructor of Office Administration*
B.S., Southern Missionary College. (1988)
- Shirley Spears, M.S., *Associate Professor of Nursing*
B.S., Southern Missionary College; M.S., University of Alabama at Birmingham. (1990)
- Jean Springett, M.S., *Associate Professor of Nursing*
B.S., Columbia Union College; M.S., University of Maryland. (1991)

- Ronald Springett, Ph.D., *Professor of Religion*
B.A., Columbia Union College; M.A., and B.D., Andrews University; Ph.D., University of Manchester. (1969)
- Jeanette Stepanske, Ed.D., *Professor of Education*
B.S., Andrews University; M.A., Ohio State University; Ed.D., University of Tennessee, Knoxville. (1979)
- Carl Swafford, M.S., *Assistant Professor of Education*
B.A., Southern Missionary College; M.S., University of Tennessee at Knoxville. (1992)
- Mitchell Thiel, Ph.D., *Professor of Chemistry*
B.A., Union College; M.S. and Ph.D., University of Maryland. (1966)
- Wayne E. VandeVere, Ph.D., C.P.A., *Ruth McKee Professor of Entrepreneurship and Business Ethics*
B.A., Andrews University; M.B.A., University of Michigan; Ph.D., Michigan State University. (1956)
- Dale Walters, M.S., *Associate Professor of Industrial Technology*
B.S., Southern Missionary College; M.S., East Tennessee University. (1988)
- Steven E. Warren, Ph.D., *Professor of Chemistry*
B.S., Andrews University; Ph.D., Arizona State University. (1982)
- Erma Webb, M.S., *Associate Professor of Nursing*
B.S., Union College; M.S., Loma Linda University. (1976)
- Larry Williams, M.S.W., *Associate Professor of Social Work and Family Studies*
B.S., Southern Missionary College; M.S.W., University of Georgia. (1983)
- Ruth Williams-Morris, Ph.D., *Associate Professor of Psychology*
B.A., Oakwood College; M.A., Andrews University; Ph.D., University of Minnesota. (1991)
- Judy Winters, M.N., *Associate Professor of Nursing*
B.S., Southern Missionary College; M.N., Emory University. (1990)
- William Wohlers, Ph.D., *Professor of History/Vice President for Student Services*
B.A., Walla Walla College; M.A., Andrews University; Ph.D., University of Nebraska. (1973)

FACULTY COMMITTEES FOR THE 1991-92 SCHOOL YEAR

Administrative Committees

Academic Progress Committee: Ken Norton, Chair; Ron Barrow, Mary Elam, Floyd Greenleaf, Donna Myers. (Dale Bidwell, ex-officio)

Administrative Council: Donald Sahly, Chair; Jim Ashlock, Ron Barrow, Dale Bidwell, Helen Durichek, Mary Elam, Jack Ferneyhough, Floyd Greenleaf, Elsworth Hetke, Jack McClarty, Ken Norton, William Wohlers, two members of the teaching faculty.

Admissions/Recruitment Committee: Ron Barrow, Chair; K. R. Davis, John Durichek, Sharon Engel, Larry Hanson, Doug Martin, Ken Norton, Ron Qualley, Bob Silver, one student appointed by the Student Association.

Budget and Finance Advisory Committee: Richard Center, Chair; Dale Bidwell, Wallace Blair, Richard Erickson, Floyd Greenleaf, William Hulsey, Allen Olsen, Marvin Robertson, Gilbert Wilkes, Charles Wilson, Ben Wygal.

Financial Appeals Committee: Ken Norton, Chair; Ron Barrow, Dale Bidwell (or designee), Donna Myers.

Health Care Exceptions Committee: Helen Durichek, Chair; Helen Bledsoe, Jack Ferneyhough, David Smith, Shirley Spears, Rita Wohlers. (Dale Bidwell, ex-officio)

Key/Access Committee: Helen Durichek, Chair; Bert Coolidge, Elsworth Hetke, Charles Lucas, Cliff Myers, Dale Tyrrell.

Loans and Scholarship Committee: Ken Norton, Chair; Ron Barrow, Diane Cooper, Sharon Engel (or designee), Dennis Pettibone, Diane Proffitt, Ron Qualley (or designee), William Wohlers, two S.A. appointed students. (Dale Bidwell, ex-officio)

Personnel Committee: Dale Bidwell, Chair; Helen Durichek, Vice Chair; Elsworth Hetke, Secretary; Wayne Janzen, Linda Marlowe, Donna Myers, Cherie Smith, David Smith, Shirley Spears, Rita Wohlers.

President's Cabinet: Donald Sahly, Chair; Ron Barrow, Dale Bidwell, Floyd Greenleaf, Jack McClarty, William Wohlers.

Publications Committee: Ron Barrow, Chair; Susan Brown, Secretary; Jim Ashlock, Doris Burdick, Doug Martin, Bob Silver, Ingrid Skantz, Merlin Wittenberg.

Safety/Fire Prevention Committee: Helen Durichek, Chair; Sharon Engel, Earl Evans, Phil Garver, Eleanor Hanson, Wayne Janzen, Ray Lacey, Charles Lucas, Ed Lucas, Don Mathis, Clarence McCandless, Bill McKinney, Allen Olsen, Dale Tyrrell, Dale Walters, Steve Warren, Chuck Whidden. (Dale Bidwell, ex-officio)

Trust Committee: Jack McClarty, Chair; Dale Bidwell, Richard Erickson, Jack Ferneyhough, Burt Pooley, Paul Smith.

Faculty Senate

Donald L. Sahly, Chair; Floyd Greenleaf, Vice Chair; George Babcock, Dale Bidwell, Bert Coolidge, Mary Elam, Richard Erickson, Robert Garren, Jan Haluska, Volker Henning, Bonnie Hunt, Henry Kuhlman, Ed Lamb, Ben McArthur, Wilma McClarty, Robert Moore, Derek Morris, Ken Norton, Laura Nyirady, Dennis Pettibone, Helen Pyke, Dan Rozell, Terrie Ruff, Larry Williams, Ruth Williams-Morris, William Wohlers.

Senate Committees

Academic Affairs Committee: Floyd Greenleaf, Chair; Cherie Smith, Secretary; George Babcock, Ron Barrow, Jack Blanco, Peggy Bennett, Mary Elam, Robert Garren, Phil Garver, Larry Hanson, Ray Hefferlin, Bradley Hyde, Ed Lamb, Katie Lamb, Ben McArthur, Steve Nyirady, Helmut Ott, Marvin Robertson, Lynn Sauls, David Smith, Wayne VandeVere, Dale Walters, Steve Warren, Consultant: Frank DiMemmo.

Academic Review Committee: Floyd Greenleaf, Chair; Ron Barrow, K. R. Davis (or designee), Mary Elam, Sharon Engel (or designee), Ken Norton (or designee), Ron Qualley (or designee), William Wohlers.

Advisement Committee: Mary Elam, Chair; Ron Barrow, Bert Coolidge (1993), K. R. Davis, Floyd Greenleaf, Carole Haynes (1994), Dorothy Hooper (1994), Wilma McClarty (1993), Marvin Robertson (1994), Ron Springett (1993).

Distinguished Service Medallion Subcommittee: Chair and members appointed by Faculty Affairs Committee at the beginning of each year.

Faculty Affairs Committee: David Smith, Chair; Richard Erickson, Shirley Howard, Steve Jaecks, Ed Lamb, Derek Morris, William Wohlers. (Donald Sahly, ex-officio)

Faculty Senate Executive Committee: Donald Sahly, Chair; Floyd Greenleaf, Vice Chair; Jan Haluska, Secretary; Dale Bidwell, Ben McArthur, Laura Nyirady, Dan Rozell, William Wohlers.

Film Subcommittee: Don Dick, Chair; Diane Cooper, Earl Evans, Robert Garren, Loranne Grace, Robert Merchant, Judy Winters, two students. (William Wohlers, ex-officio)

General Education Committee: Lynn Sauls, Chair; Jon Green, Bonnie Hunt, Ed Lamb, Ben McArthur, Helen Pyke, Mitchell Thiel. (Floyd Greenleaf, ex-officio)

Honors Subcommittee: Ben McArthur, Chair; Bruce Ashton, Duane Houck, Wilma McClarty, Steve Nyirady, Art Richert, Jeanette Stepanske. (Floyd Greenleaf, ex-officio)

FACULTY COMMITTEES

Instructional Resources Committee: John Keyes, Chair; Fern Babcock, Peg Bennett, Frank DiMemmo, Lorraine Grace, Jon Green, Dorothy Hooper, Steve Warren. (Floyd Greenleaf, ex-officio)

Pre-Professional Committee: Floyd Greenleaf, Chair; all faculty from Biology, Chemistry and Physics, Art Richert, Sharon Engel (or designee), Ron Qualley (or designee), William Wohlers.

Promotions Committee: Katie Lamb, Chair (1993); Don Dick (1993), Floyd Greenleaf, Jan Haluska (1995), Ben McArthur (1995), Steve Nyirady (1994), Cecil Rolfe (1994). (Donald Sahly, ex-officio)

Religious Life Subcommittee: Ken Rogers, Chair; Ron du Preez, Leona Gulley, Stan Hobbs, Kassy Krause, Ruth Williams-Morris, two students appointed by the S.A., two students appointed by the Subcommittee chair. (William Wohlers, ex-officio)

Screening Subcommittee: Pat Silver, Chair; Pam Ahlfeld, David Ekkens, Don Mathis, Lydia Rose, Steve Warren. (William Wohlers, ex-officio)

Social/Recreation Committee: Jeanne Davis, Chair; Earl Evans, Bill Hayes, Laura Nyirady, Terrie Ruff, Cherie Smith, Peggy Smith. (Donald Sahly, ex-officio)

Student Activities Subcommittee: William Wohlers, Chair; Edgar Grundset, Rick Halterman, Stan Hobbs, Dawn Holbrook, Steve Jaecks, Kassy Krause, Kathy Schleier, three students appointed by the Student Association including the S.A. Social Vice President.

Student Personnel Committee: William Wohlers, Chair; K.R. Davis, Sharon Engel, Earl Evans, Eleanor Hanson, Stan Hobbs, Kassy Krause, Don Mathis, Ron Qualley, Ken Rogers, Rhea Rolfe, Lydia Rose, Dale Tyrrell.

Student Services Committee: William Wohlers, Chair; Don Dick, Sharon Engel, Judy Glass, Ken Norton, Ron Qualley, Ken Rogers, Dan Rozell, Pat Silver.

Teacher Education Council: George Babcock, Chair; John Baker, Ben Bandiola, Joyce Cotham, David Ekkens, Phil Garver, LaVona Gillham, Jon Green, Floyd Greenleaf, Jan Haluska, Carole Haynes, Michelle Krause, Philip Mitchell, Bob Moore, Dennis Pettibone, Mary Ries, Marvin Robertson, Kermise Rowe, Helen Sauls, Ron Springett, Jeanette Stepanske, Carl Swafford, William Wohlers.

Wellness Committee: Phil Garver, Chair; Dale Collins, Helen Durichek, Don Mathis, Laura Nyirady, Merlin Wittenberg, one student intern appointed by the HPER Department. (Dale Bidwell, ex-officio)

Writing Committee: Helen Pyke, Chair; Bruce Ashton, Douglas Bennett, Bill Hayes, Ray Hefferlin, Pat Morrison, Lynn Sauls. (Floyd Greenleaf, ex-officio)

INDEX

Absences	67	Music	219
Academic Calendar	3	Physics	242
Academic Enrichment Services	72	Psychology	137
Academic Honesty	64	Psychology Leading to	
Academic Policies	47	Licensure, K-8	139
Academic Probation and Dismissal	65	Public Relations	197
Accounting, Courses in	114	Religion	256
Acceptance	10	Spanish	210
Regular	10	Bachelor of Business Administration	106
Academic Probation	11	Accounting	106
Accounts, Statements and Billing	21	Business Management	107
Accreditation and Memberships	8	Computer Information Systems	109,130
Administrative Building	9	Marketing	108
Administrative Staff	274	Bachelor of Music, Music Ed	216
Admissions	10	Bachelor of Science	
Admissions, Nursing	232	Behavioral Science	89
Admissions, Teacher Education	145	Biology	97
Advance Payment	19	Business Administration	109
Adventist Colleges Abroad		Chemistry	123
Financial Policy	20	Computer Science	129
Adviser, Academic	62	Family Studies	89
Allied Health Professions	77	Health, Physical Education,	
Anderson Lecture Series	72	and Recreation	171
Anesthesia	268	Health Science	173
Application Procedure	14	Long-Term Health Care	111
Art, Courses in	85	Mathematics	205
Architectural Studies	131	Medical Science	266
Arthur W. Spalding School	9	Medical Technology	77
Assembly Attendance	46, 68	Nursing	231
Associate Degree Programs		Office Administration	112
Accounting	112	Physical Education	172
Allied Health	80	Physics	244
Architectural Studies	131	Social Science Leading to	
Computer Applications	131	Licensure 1-8	140
Computer Science	132	Social Work	90
Engineering Studies	161	Wellness Management	173
General Studies	266	Bachelor of Technology Degree	
Health Info Administration	113	Graphic Arts	189
Nursing	231	Technical Plant Services	189
Office Administration	113	Banking and Cash Withdrawals	26
Pre-Dental Hygiene	81	Bankruptcy	24
Pre-Occupational Therapy	81	Biblical Languages, Courses in	265
Pre-Physical Therapy	82	Biblical Studies, Courses in	259
Associate Degree Requirements	51	Biology, Courses in	98
Attendance Regulations	67	Board of Trustees	274
Auditing Courses	16,61	Executive Board	274
Auto Body, Diploma Program	188	Botany, Courses in	100
		Brock Hall	9
Baccalaureate Degree Requirements	50	Business Administration, Courses in	116
Bachelor of Arts			
Biology	96	Campus organizations	45
Broadcast Journalism	196	Canceled Classes	62
Chemistry	122	Certification	149
Computer Science	128	Challenge Exams	69
English	164	Chamber Music Series	73
French	210	Changes in Registration	61
German	210	Chemistry, Courses in	124
History	181	Class Attendance	67
International Studies	211	Class Office Eligibility	45
Journalism (News Editorial)	194	Class Standing	49
Mathematics	204		

INDEX

Classic Film Series	73
CLEP Exams	69
Cognate Courses	76
Collection Policy	23
College Administration	274
College Plaza	9
College Publications	44
Collegedale Church	9
Commercial Auxiliaries Managers	275
Computer Center	9
Computer Science, Courses in	133
Computer Science and Technology	127
Computer Technology, Courses in	136
Concert-Lecture Series	45
Conduct Standards	45
Correspondence Work	70
Counseling	43
Course Load	62
Course Numbers	76
Course Sequence	76
Credit Cards	27
Daniells Hall	9
Dean's List	57
Degree Requirements, Basic	47
Degrees Offered	58-60
Associate Degrees	58-60
Bachelor of Arts	58-60
Bachelor of Music	60
Bachelor of Science	58-60
Bachelor of Business	
Administration	59
Bachelor of Social Work	58
General Education	
Requirements	51
Major and Minor	
Requirements	57
Dental Hygiene	81
Dentistry	268
Dining Services	42
Dismissal	65
Distinguished Dean's List	57
E. A. Anderson Lecture Series	72
Earth Science, Courses in	249
Ecology, Courses in	100
Economics, Courses in	115
Education	152
Courses in	152
Certification	147
See Bachelor of Arts, Psychology	
Leading to Licensure K-8	
See Bachelor of Science, Social	
Science Leading to Licensure 1-8	
Elementary Education	149
Eligibility Criteria/	
Leadership Posts	45
Emeriti Faculty	277
Employment Service	44
English, Courses in	166
English, Proficiency in	13
Engineering, Courses in	162
Eugene A. Anderson Heiller Organ	
Concert Series	72
Examinations	
Attendance	68

Credit by	69
CLEP	69
Special	68
Special Fees	16
Expenses	15
Facilities	9
Faculty	
Committees	286
Directory	278
Emeriti	277
Family Rebate	15
Financial Information	15
Aid	30
Grants	37
Loans	38
Satisfactory Academic	
Progress for	32
Scholarships	36
Veterans	35
Banking and Cash Withdrawals	26
Credit Refund	25
Expenses	15
Advance Payments	19
Application Fee	14
Estimated Student Budget	15
Food Service	18
Housing	17
International Student Deposit	19
Late Registration	17
Post Graduate Tuition	29
Special Fees and Charges	16
Student Costs	15
Student Tithing	28
Tuition	15
Tuition Refunds	25
Family Rebate	15
Methods of Payment	20
Florence Oliver Anderson	
Lecture Series	72
Florida Campus	241
Foreign Study	210
French, Courses in	212
Freshman Standing	10
Freshman Year Experience, Course	227
Full-Time Student	63
General Education, Purpose of	51
General Education, Objectives	51-55
General Education Requirements	51-55
General Studies	266
Geography, Courses in	185
German, Courses in	212
Grading System	63
Graduation Requirements	50
Graduation with Honors	57
Graphic Arts	189
Greek, Courses in	265
Grievance Procedure	67
Guidance and Counseling	43
Hackman Hall	9
Health Education, Courses in	176
Health Insurance	26
Health, Physical Education	
and Recreation, Courses in	174

Health Service	43	Mathematics	206
History of the College	7	Music	220
History, Courses in	183	Office Administration	113
Honor Roll	57	Physics	245
Honors, Graduation with	57	Political Economy	183
Honors Program	55	Pre-Health Info Administration	113
Honors Studies Sequence	56	Psychology	138
Housing	17	Public Relations	199
Deposit	18	Religion	259
Humanities, Courses in	227	Sociology	91
I.D. Card Replacement	17	Spanish	211
Incompletes	63	Technology	187
Industrial Technology	187	Modern Languages, Courses in	212
Instructional Media	74	Music, Courses in	220
Insurance	26	Curricula	216
Interdepartmental Programs	266	Bachelor of Music	216
Interest on Past-Due Balance	23	Bachelor of Arts	219
International Students	12,19	Ensembles	225
Internship Tuition Charges	24	Fees	16
Journalism, Courses in	199	Nondepartmental	227
Key Replacement	17	Nursing, Courses in	235
Labor Regulations	27	Accreditation	231
Foreign Students	28	Admission Requirements	
Late Registration	61	Lower Division	232
Law	269	Upper Division	236
Ledford Hall	9	Expenses	15
Libraries	74	Loans	38
Library Science, Courses in	228	Scholarships	36
Literature, Courses in	167	Nutrition Course	227
Loans	38	Objectives of the College	6
Location of College	8	Occupational Therapy	81
Lynn Wood Hall	9	Occupational Therapy Assistant	80
Major and Minor Requirements	57	Office Administration, Courses in	119
Marine Biological Field Station	74	One-Year Certificate	
Mathematics, Courses in	206	Auto Body, Repair and Refinishing	188
Mazie Herin Hall	9	Optometry	271
McKee Library	74	Organizations	45
Medical Science	266	Orientation Program	44
Medical Technology, Course in	77	Orlando Campus	241
Medicine	270	Osteopathic Medicine	272
Miller Hall	9	Overseas Study	210
Minors		Pass/Fail Courses	174
Art	86	Petition	66
Behavioral Science	91	Pharmacy	272
Biblical Languages	256	Philosophy of College	6
Biology	98	Physical Education Building	9
Broadcast Journalism	198	Physical Education, Courses in	174
Business Administration	113	Physical Therapy	82
Chemistry	124	Physical Therapy Assistant	80
Computer Science	128	Physics, Courses in	246
Education	142	Pierson Lecture Series	74
English	166	Placement	44
French	211	Political Science, Courses in	185
German	211	Post Graduate Tuition Plan	29
Health, Physical Education, and Recreation	172	Pre-Professional and	
History	182	Technical Curricula	60,268
Journalism (News Editorial)	198	Anesthesia	268
Marketing	113	Dental Hygiene	83
		Dentistry	268
		Engineering	172
		Graphic Arts	200
		Law	269
		Medical Technology	80

INDEX

Medicine	270	Special Student	12
Occupational Therapy	77	Special Fees and Charges	16
Optometry	271	Speech, Courses in	169
Osteopathy	272	Speech-Language Pathology and Audiology	80
Pharmacy	272	Staley Christian Scholar Lecture Series	73
Physical Therapy	82	Standards of Conduct	45
Pre-Health Information Administration	113	Student Association	44
Radiologic Technology	80	Student Center	9
Respiratory Therapy	80	Student Employment Service	44
Technical Plant Services	189	Student Life and Services	42
Veterinary Medicine	273	Student Records	64
Privacy (Student Records)	64	Study and Work Load	62
Probation	65	Subject Requirements for Admissions	11
Programs of Study	58	Summer School, Class Load	62
Prospective Graduates	50	Summerour Hall	9
Psychology, Courses in	157	Talge Hall	9
Public Relations, Courses in	202	Teacher Education Certification	148
Publications	44,193	Technology, Courses in	189
Radio Station, WSMC FM90.5	75	Thatcher Hall	9
Rebate, Family	15	Tithe and Church Expense	28
Refund Policy	25	Transcripts	24,50,70
Credit Refund	25	Transfer of Credit	51
Financial Aid Refund Policy	34	Transfer Students	11
Registration	61	Trustees, Board of	274
Rehabilitation Act	42	Tuition and Fees	15
Religion Center	9	Tuition Payment Plans	20
Religion, Courses in	259	Tuition Refunds	25
Religious Organizations	45	Tuition Waivers	24
Residence Halls	42	Upper Division Credit	51
Residence Requirements	50	Veterans	35
Respiratory Therapy	80	Veterinary Medicine	273
Right of Petition	66	Waiver Examinations	69
Rosario Beach Marine Field Station	104	Wellness Management	173
Satisfactory Academic Progress	31	Withdrawals	25
Scholarships	36	Lynn Wood Hall	9
Scholastic Probation	65	J. Mabel Wood Hall	9
Secondary Education	142	Work Regulations	27
Senior Citizen Tuition Policy	30	Work-Study Schedule	62
Senior Placement Service	44	Worship Services	46
Sequence of Courses	76	Wright Hall	9
Service Auxiliaries, Managers	276	Writing (W) Courses	52,76
Setting of College	8	WSMC FM90.5	75
SC Students	9	Zoology, Courses in	101
Social Work, Courses in	91		
Sociology, Courses in	93		
Southern Scholars Benefits	16		
Spalding Elementary School	19		
Spanish, Courses in	212		

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